



S. 27. A.3.

CHESTER

Society of Patural Science & Literature

(Founded by Charles Kingsley, 1871.)

TWENTY-SIXTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

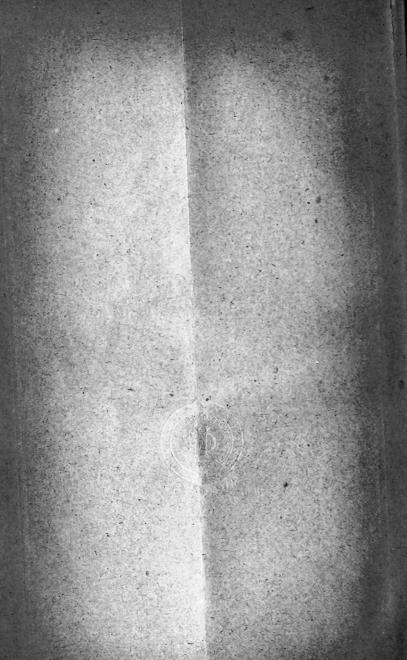
FOR THE YEAR 1896-97.



CHESTER:

PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCXCVII.



CHESTER SOCIETY

OF

NATURAL SCIENCE AND LITERATURE

(FOUNDED BY CHARLES KINGSLEY, 1871,)



TWENTY-SIXTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS FOR 1896-97,

AND THE

LIST OF MEMBERS FOR 1897-98:

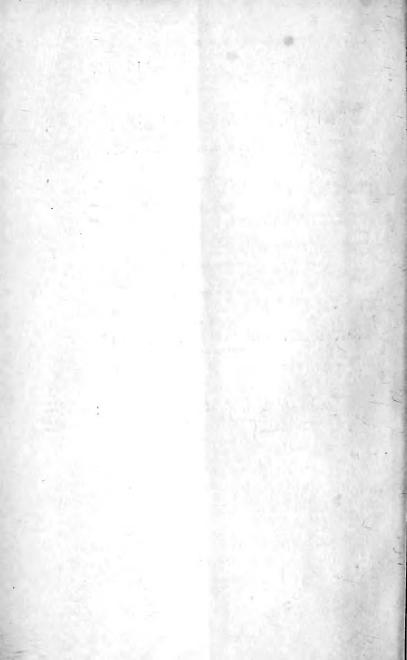
ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION, &c.

CHESTER:

PRINTED BY G. R. GRIFFITH, "THE CASTLE" PRINTING WORKS.

MDCCCXCVII.



Officers and Committee for 1897=98.

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Vice=Presidents: HIS GRACE THE DUKE OF WESTMINSTER, K.G.

PROF. T. MCKENNY HUGHES, F.R.S. | W. M. DOBIE, Eso., M.D., J.P., F.R.A.S. A. O. WALKER, Eso., J.P., F.L.S. | H. STOLTERFOTH, Eso., M.A., M.D., J.P. G. R. GRIFFITH, Esq.

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CHAIRMAN -MR. A. O. WALKER, F.L.S. SECRETARY-MR. W. F. J. SHEPHEARD Nant-y-Glyn, Colwyn Bay. Bridge Street Row.

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CHAIRMAN -- DR. STOLTERFOTH SECRETARY-MR. J. D. SIDDALL I, Grey Friars. ... 19, Eaton Road.

PHOTOGRAPHIC.

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LITERATURE.

.. The Palace, Dee Side. CHAIRMAN -THE RIGHT REV. THE LORD BISHOP ... SECRETARY-REV. A. H. FISH, B.A., B.Sc. Arnold House.

ASTRONOMICAL.

CHAIRMAN -- DR. W. M. DOBIE SECRETARY-- DR. HERBERT DOBIE Northgate House. ... II, St. John Street.

Bon. Treasurer :

MR. JOHN SIMON, 4, Eastgate Row.

Bon. Secretaries :

Scientific-Dr. STOLTERFOTH, M.A., 1, Grey Friars. MR. G. P. MILN, Milnholme, Brook Lane, MR. W. F. J. SHEPHEARD, Bridge Street Row. General

Bon. Librarian :

MR. P. H. FLETCHER, Woodbrae, Curzon Park.

Committee:

THE ABOVE OFFICERS (Ex-Officio).

AND

MR. E. J. BAILLIE, F.L.S. MR. J. BAIRSTOW, F.C.S. MR. E. G. BALLARD, A.R.S.M. REV. J. L. BEDFORD, M.A., F.L.S. DR. W. H. DOBIE. MR. H. DUCKWORTH, F.L.S., F.G.S. MR. H. B. DUTTON.
MR. E. HODKINSON.
DR. KING.
MR. F. W. LONGBOTTOM. L. B. DAY. REV. J.

Mr. J. DAY. Mr. J. LYON DENSON.

Ton. Auditors :

MR. BERESFORD ADAMS. Mr. C. R. ENOCK.

Curator and Assistant=Librarian:

MR. R. NEWSTEAD, F.E.S., The Grosvenor Museum.

Assistant=Secretary : MR. T. HIGGINSON.

RULES.

1.—That the Title of this Society be "The Chester Society of Natural Science and Literature." and that its objects be the promotion of the study of Natural Science and Literature by Lectures, Field Meetings, the Reading and Discussion of Papers, and other suitable means.

2.—That the Officers be a President, Eight Vice-Presidents, Treasurer, One Scientific Secretary, Two General Secretaries, a Chairman and Secretary for

each Section (nominated by the Section), and a Librarian.

3.—That the Committee consist of the above-named Officers, and of Twelve of the Members of the Society; and that the practical management of the Society be vested in such Committee, subject to the following Rules:—

4.—The name of any Candidate for Membership of the Society, with those of a Proposer and a Seconder, must be sent in writing to the Secretaries or Treasurer for the Committee, and shall be by them submitted for election at the next ensuing General Meeting; and when elected the Candidate shall become a Member upon payment of the Annual Subscription.

5.—That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year. Any person duly elected may become a Life

Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special members or Corresponding Members, on nomination by the Committee. The number of Honorary Members

may not exceed Thirty.

7.—That each Member shall be allowed to introduce one non-resident friend amy of the General Meetings, except at the Annual General Meeting; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own Sectional Meetings.

8.—That any Member desirous of withdrawing from the Society, shall give notice (in writing) to either of the General Secretaries, before the end of the financial year. In the absence of such written notice the Member shall be

liable for the current year's Subscription and all arrears.

9.—The names of Members whose Subscriptions are two years in arrear, after a final application has been made by the Secretaries or Treasurer, shall be

crased from the list of Members.

10.—A General Meeting shall have the power of expelling any Member whose conduct they deem objectionable, providing special notice has been given on the Society's Circular convening the Meeting, and that at least two-thirds of the Members present agree thereto.

11. - That the Committee shall meet monthly for the despatch of business.

Five Members shall form a quorum.

12.—That the Committee shall arrange General Field Meetings during the year. The place of Meeting shall be fixed by the Committee, and due notice be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether such Meetings be postponed or not.

13.—That the Committee shall also arrange at least six General Evening Meetings in the year, at which papers shall be read and discussed. No paper shall be read without the previous sanction of the Committee. Objects of

scientific interest may be exhibited at these Evening Meetings.

14. —That the Annual General Meeting of the Society shall be held in the month of May. At this Meeting the Officers and Committee of the Society, and two Auditors for the ensuing year, shall be elected. If the number of nominations for any office exceeds the number of vacancies the election shall be by Ballot. The Officers' Reports and Financial Statement, made up to the end of April, and duly audited, shall also be submitted, and read if desired.

15.—Nominations for the Committee and Auditors shall be sent in writing to either of the General Secretaries at least ten clear days previous to the

Annual General Meeting.

16.—The names of all persons to be submitted to the Annual General Meeting as Officers and Committee, and also all Financial Statements and any proposed alterations of Rules, shall be posted on the Notice Board in the Vestibule of the Museum, at least six clear days previous to the Annual General Meeting, for the information of Members, who shall be apprised of such publication on the Notice convening the Meeting.

17.-The Committee shall fill any vacancy that may occur before the next

Annual General Meeting.

18.—Any proposed alterations in the above Rules shall be notified to either of the General Secretaries at least ten clear days before the Annual General Meeting, and shall only be adopted if sanctioned by at least two-thirds of the Members present. No alteration in these Rules shall otherwise be made.

ANNUAL REPORT.

The time has again arrived when your Committee have the pleasure of presenting the Members with a Report of what has taken place during the past year.

The Society has now been in existence for twenty-six years, and this fact alone shows that its vitality is strong.

The number of its Members keeps to a high standard, proving that young life is entering our ranks. We have lost by death and removal about forty Members, but have added to our list the names of 105 new Members.

Our Honorary Members have been augmented by names of European reputation, while we still retain amongst us many of those who were associated with our Society from its commencement.

During the Summer of last year much took place in and about Chester, which proved of great and general interest to our Members. The Home Reading Union made Chester the centre for its Annual Meeting. The British Pharmaceutical Conference, and the Arboricultural Society of Great Britain also met here. The Chester Horticultural Show on the Roodee was well attended; and last, but not least, The British Association Meeting, at Liverpool, proved a great attraction.

All these interests, to a certain degree, prevented our Society from carrying out its usual programme of Summer Excursions, but this was quite compensated for by the fact that our Members had opportunities of joining other Societies, and acquiring extension of experience and knowledge so essential to the vitality of Natural Science in all its branches.

The financial position of our Society will be placed before you by our Treasurer, Mr. Simon.

The Library is in good order, and we have to thank many friends for valuable contributions.

The Museum keeps up its high efficiency and admirable order, thanks to the untiring energy of our Curator. There will be a full report of the gifts and additions made within the last year; for many of these we have to thank our Curator.

The Annual Account of the Kingsley Memorial Fund will be brought before you by Mr. E. J. BAILLIE.

Thanks to the Museum Management Committee the Lecture Theatre has been much improved, both with regard to the arrangement of the seats and the putting up of a new table for the Lecturer. Your Committee trust that the room, as it now stands, offers a convenient place of meeting for all Members.

We must now enter on the arrangements made by the Committee for carrying on the work of the past year. This will be considered under the following heads:—Excursions, Conversazione, Lectures, and Sectional Meetings.

For reasons before stated there were only four Summer Excursions in 1896—

LIMITED.

The Excursion to the Bethesda Slate Quarries was well attended, and proved a most enjoyable day. The arrangements were all well carried out, thanks to Lord Penrhyn's Quarry Manager, E. A. Young, Esq., and Col. The Hon. W. E. Sackville West, Agent to the Estate. Our Members had thus an opportunity of going over some most interesting scenery, as well as visiting Penrhyn Castle and Gardens.

The Committee found it advisable not to have any Excursions in August, owing to so many Members being away from Chester during that month.

In September the British Association met in Liverpool, and made two visits to Chester. On the 19th-on their way to Hawarden; and on the 24th to Eaton. On the latter date we asked the Members of the Association to our Annual Conversazione, which was held somewhat earlier than usual, in order that we might have the pleasure of meeting some of the distinguished visitors who are always present at the British Association Meetings. Amongst them was PROFESSOR T. MCKENNY HUGHES, one of our former Presidents; also Professor De Candolle, from Switzerland, who represents a long line of distinguished Botanists. The Meeting was well attended, and the Kingsley Memorial Medal was presented by the Countess Grosvenor to the REV. A. H. FISH for original work done by him in the district. A grant from the Kingsley Memorial Fund was made to Mr. Alfred Newstead for his collection of Waterbeetles, and other life-histories of various Insects. One of the great attractions of the gathering was a demonstration of the X-Rays of Professor Röntgen, who was elected an Honorary Member of our Society, but, unfortunately for us, he was not able to be present. Mr. Fish, however, was an able exponent of the wonderful discovery, and spared neither time nor expense in exhibiting it to perfection. The whole of the Museum was thrown open to the Members, so that not only had they the opportunity of seeing their own collections, but also those of the Archæological Society, the Art Gallery, and the students at work in the Technical Schools. There was a fair display of Photographic work by the Members of the Photographic Section. A collection of cut Herbaceous Flowers made an exquisite show, which delighted the heart of every true lover of Botany. There was also an exhibition of Microscopic objects, and other Scientific Instruments

The past Winter has been one of unusual activity in the way of Lectures. Not only have there been seven General Meetings with Lectures, but there have been several Special Lectures, and these on very interesting subjects—

THE GENERAL LECTURES.

1896.
Oct. 29th - "The Recent Total Eclipse," by SIR ROBERT BALL, F.R.S.
Nov. 26th-- "A Cruise with a Camera," and "Standing neath the Shadow of
the Moon," by F. W. LONGBOTTOM, Esq., M.B.A A.

1897.

Jan. 6th—"Impressions of South Africa," by GEO. WYNDHAM, Esq., M.P.

Jan. 28th—"Lavoisier and his work," by ED. DAVIES, Esq., F.C.S., F.I.C.

Feb. 25th-"The Constitution and Composition of the Earth's Atmosphere," by the Rev. A. H. Fish, B.A., B.Sc.

Mar. 25th-"Shooting Stars," by the Rev. FATHER A. L. CORTIE, S.J., F.R.A.S.

Apr. 29th—Annual General Meeting—"An Exhibition of the Birds in the Society's Museum, on Lantern Slides," given by Mr. R. Newstead, F.E.S.

SPECIAL MEETINGS.

1896.

Dec. 10th—"Electric Lighting and Power," by DR. N. S. KEITH, M.I.E.E. 1897.

Jan. 6th-"The Air we Breathe" (for our Young People), by Mr. J. A. McMichael, B.A., B.Sc.

Jan. 14th—"From Mont Blanc to the Matterhorn," by W. LAMOND HOWIE, ESQ., F.C.S.

Mar. 9th—"Salmonidæ," by MAJOR LEADBETTER, Hon. Secretary of the River Dee Fishery Board.

All these Lectures were well attended, and of especial interest. Most of the Lectures have been illustrated by the Lantern, which is of great use, and brings before the eye of the audience the object described, and thus another sense is called into play; and for great improvement of the slides we have to thank the Photographer.

There have been, during the Winter, two Free Courses of Elementary Lectures—one Course on Geology, the other on Chemistry; these have been under the management of Mr. A. W. Lucas and Mr. J. Bairstow. The Committee consider these Lectures have been very valuable, acting as a stimulus to young people; in many cases rousing them

to a sense of how much there is to learn, and inducing them to turn to books for further information, to say nothing of the advantage of a good grounding before attending the more advanced Lectures given by the different Sections.

The Sections into which the Society is divided have met week by week during the past Winter, and a report of these Meetings will be given by the Secretaries of the different Sections.

Your Committee have met fifteen times during the past year to arrange for the carrying on of the general work of the Society, which has increased numerically to a considerable extent. This, your Committee feel, will necessitate an increase in *their* number, and a motion to this effect will be brought before you, as it is felt that the more the Members can be induced to take an active part in the working of the Society, the more its efficiency will be promoted. The very object for which the Society exists, is to instill a love of Natural Science, and it is hoped that in the coming year good work may be done in tabulating and recording what is perpetually going on around us, which only awaits to be made use of to lead us on to more perfect knowledge.

Your Committee take this opportunity of thanking all those who, by gifts and specimens and records of observation, have enriched the Museum; we must also thank those who, by reading Papers before the Society, have helped to make the past Winter Session a success.

Our thanks are also due to the donors of Books to the Library, and all those who so kindly assisted at the Annual Conversazione.

The Committee again ask the Members for their indulgence as to things done or omitted, feeling that in a large Society there must be some faults both of commission and omission; but if the Members will only take an interest

in the *working* of the Society, this will, in a great measure, cure itself; and the Society, as time goes on, will continue to show itself a strong power amongst us, and justify all the trouble and expense so liberally given, which have so far made its prosperity in past years.

HENRY STOLTERFOTH, M.A., M.D.,

Hon. Scientific Secretary.

APRIL 29th, 1897.

ANNUAL MEETING, APRIL 29TH, 1897.

The Reports and Accounts for the past year were submitted and adopted;

A proposition to increase the number of Elective Members on the Committee, from six to twelve, was adopted;

On the Motion of the retiring President (Dr. Stolterfoth), Seconded by Mr. J. D. Siddall, Mr. Thomas Shepheard, F.R.M.S., was unanimously elected President of the Society for the ensuing year;

MR. SHEPHEARD delivered his Presidential Address;

The following were elected on the Committee for the ensuing year:—
Mr. F. W. Longbottom, Mr. E. J. Baillie, Mr. J. Bairstow, Dr. W.
Henry Dobie, Mr. J. L. Denson, Mr. H. Duckworth, Mr. E. Hodkinson,
Rev. J. L. Bedford, Dr. King, Mr. J. Day, Mr. H. B. Dutton, and
Mr. E. G. Ballard.

Resolved :--

"That the Kingsley Memorial Medal for the present year be awarded "to Dr. W. Hy. Dobie, at the forthcoming Annual Conversazione."

Resolved :-

"That it be a direction to the Committee to take into consideration the "revision of the Rules, and to report any alterations they may "think fit to this Meeting; and that this Meeting be adjourned "sine die."

A very hearty vote of thanks was accorded to the Honorary Secretaries for their successful conduct of the Society's affairs.

ADJOURNED ANNUAL MEETING, MAY 20TH, 1897.

The Chairman read Letters from Mr. G R. Griffith and Mr. G. P. Miln, resigning their positions as Hon. General Secretaries of the Society, and explained that for personal reasons Mr. Griffith had been unable to see his way to withdraw his resignation.

Resolved:--

"That Mr. GRIFFITH'S resignation be received with the deepest regret,
"and that the heartiest thanks of the Society be tendered to him
"for his long and invaluable services."

Resolved :--

"That MR. GRIFFITH be elected a Vice-President of the Society."

THE CHAIRMAN notified that Mr. MILN had kindly consented to withdraw his resignation, and it was

Resolved :-

"That MR. W. F. J. SHEPHEARD be appointed Co-Secretary with
"MR. MILN; and that MR. T. HIGGINSON be appointed
"Assistant-Secretary."

The Revised Rules drawn up by the Committee were formally adopted, with slight alterations (see page 4.)

A warm vote of thanks was awarded MR. MILN for his past services to the Society, and for his kindness in withdrawing his resignation.

CURATOR'S REPORT.

The work of the past year has been of a somewhat varied character as no effort has been made in the collection or preparation of any special branch or department of the Museum. A quantity of material has, however, been acquired, which will, in the course of another year, make very attractive exhibits. In collecting expeditions to Arenig, Cefn, and elsewhere, your Curator was successful in obtaining valuable material, and in soliciting aid from persons more or less interested in Natural History.

We tender our sincere thanks to Messrs. R. J. Smith (Aldford) and Jno. Roberts (Bala) for the interest taken in the work of the Museum, both by the collecting of specimens, and soliciting of help from others. Messrs. Chas. Oldham and T. A. Coward (two of our Corresponding Members), are constantly making valuable additions to the Vertebrata, &c. Messrs. J. Arkle and Geo. O. Day have added considerably to the Lepidoptera, both in additional species and in the renewal of old series. Mr. Alfred Newstead has done good work in the Coleoptera and other branches of Zoology; his Kingsley Memorial Collection of Coleoptera has been added to the permanent collection. The work of your Curator has so frequently been brought before

the Members of the Society, in the form of illustrated lectures, that it is needless to repeat it in this Report.

Collections, illustrating Geology and Zoology, have been loaned to several Institutions for lecturing purposes; and we now have in progress the formation of a collection of Geological specimens, which will also be loaned to the various schools in the City for educational purposes.

Mr. A. O. Walker's valued loan of Reference Works still remains with us; and for which we tender our sincere thanks. Our President (Dr. Stolterfoth) and Dr. W. H. Dobie have also lent books of reference for the identity of various orders of Zoology.

ABSTRACT OF	THE RE	PORT.			Species Presented.	Total of Species.	Total of Specimens
Botany					100	100	100
Hydrozoa					3	3	16
Crustacea (Shrimps, &c.)					14	14	51
Aracnida (Spiders)					i	í	1
Orthoptera (Cockroaches)				2	2	13
Thysanura (Bristle-tails,	Fish.	Moths.	&c.)		3	3	23
Homoptera (Scale Insects	. &c.)				3	3	10
Lepidoptera (Moths and .					102	102	330
(* 2. 44. /D. (1.)		,			67	67	192
Neuroptera (Dragon Flie					2	2	2
Diptera (Two-winged Fli		,			9	9	15
Hymenoptera (Bees and		s. &c.)			20	20	51
Polyzoa	. acp	,,	• • •		T	ı	1
Mollusca (Shells, &c.)			• •	• •	9	9	20
Pisces (Fish).			* •		6	6	12
Amphibia (Newts)	• •	• •	• •	• •	ī	1	5
Aves (Birds)		• •	• •		- 1	45	52
Noct and Face	• •	• •	• •		45	18	
Mammalia	• •	• •	• •		10	IO	44
C1		• •	• •				1
Miscellaneous		* *	• •		32	32	64
,,				• •	_	_	0
TOTAL					448	448	1,022

LIST OF DONORS AND ADDITIONS.

	AMPHIBI	A (Newts,	&c.)		
Mr. Charles Old	lham				Specimens.
	ARACNID	A (Spiders	, &c.)		
Mr. Durrant				1	ı

	AV	ES (B	irds.	&c.)				
Mr. Dinak		,		,		Species.	Spe	cimens.
Mr. Birch	• •	• •	• •	• •	• •	I	_	I
Mr. Bonnalie	• •		• •	• •	• •	1		I
Mr. E. Comber	1	• •	• •	• •	• •	19	~	20
Colonel B. G. Davies-C	ooke	• •	• •		• •	I		I
Mr. T. A. Coward	• •	• •	• •	• •	• •	2	_	2
Dr. W. H. Dobie	• •	• •	• •	• •		1	_	1
Mr. Edwards	• •	• •	• •	• •		I	-	I
Mr. Councillor Jones	• •	• •	• •	• •	• •	I	_	1
Mr. Large	• •	• •	• •	• •	• •	I	_	1
Curator R. Newstead	• •	• •			• •	3	_	3
Messrs. R. Newstead (j	unr.) a	and R.	Cockri	11	• •	1	-	I
Mr. Charles Oldham	• •					I		4
Mr. Roberts			• •			2	_	4
Mr. H. E. Sharp						τ		I
Mr. R. J. Smith						8		9
His Grace The Duke of	West	minste	r, K.G			I	_	1
		BOTA	WV					
Mr Caril Dunch								
Mr. Cyril Punch	• •	• •	• •	• •	• •	100	_	100
CO	LEO	PTER	RA (B	eetle	s.)			
Mr. F. R. Bolland				••		2	_	20
Mrs. Carstairs Jones		••			/	I	_	I
Mr. Charles E. Mann					• •	2		11
Curator R. Newstead						4		IO
Mr. Charles Oldham						11		14
Mr. T. Walmsley Price						1		i
Dr. Russell						2		5
Mr. W. F. J. Shephear	d					I		I
Mr. R. J. Smith						3	_	3
Mr. B. Tomlin						ī	_	5
Mr. A. O. Walker						16	_	20
CRII	CT A	CEA (Chain	220				
Mr. F. R. Bolland					&c.)	8		
Mr. J. D. Siddall	• •	••	• •	• •	• •		_	21
Mr. A. O. Walker	••	• •	• • •	• •	• •	, I .		20
To 3771 14	• •	• •	• •	• •	• •	3	_	7
Dr. White	• •	• •	** .	• •	• •	2	_	3
DIPTH	RA	(Two	-win	ged 1	flies.)		
Mr. Johnson Dickson	• •	• •	• •		• •	I	_	I
Mr. Johnson		• •		• •	• •	1		I .
Curator R. Newstead		**	• •			1	 ,	3
Mr. A. Newstead						I	_	2
Mr. Charles Oldham						I	_	3
Dr. Russell						I	_	I
Mr. A. O. Walker						2		3
Dr. White						I		1

		GEOI	LOGY					
Mr. E. E. Duanus						Species.	-	
Mr. F. F. Brown	• •	• •	• •	• •	• •	I	_	I
Mr. Bycott	••	••		••	• •	3	_	9
Col. B. G. Davies Cool		• •	* *	• •	• •	2	_	2
Mr. T. B. Ffoulkes	• •	• •	• •	• •	• •	20	_	40
Sergeant E. Myddletor		• •	• •	• •	• •	I		I
Curator R. Newstead	• •	• •	• •	• •	* *	I	_	5
Mr. R. Parker	* *	* *	• •	• •		I	_	I
Miss Parsons	• •		• •		• •	I	_	1
Mr. S. Youd	• •	• •	••	• •	••	2		4
номо	PTEI	RA (S	cale :	Insect	s, &	c.)		
Mr. E. J. Baillie						1	_	1
Mr. N. F. Barnes						ı	_	3
Mr. A. T. Gillanders			• • •			1		6
	•••	••	••	••	• •	•		Ü
	H	YDR	OZOA	i .				
Mr. F. R. Bolland	••	••	• •	••	• •	3	-	16
HYMEN	OPT	ERA	(Bees	s, Wa	sps,	&c.)		
Mr. E. J. Baillie						1	_	I
Mr. Jeffrey				• •		3	_	16
Mr. Johnson						I	_	2
Mr. A. Newstead			• •			I	_	1
Curator R. Newstead						I		I
Mr. Chas. Oldham			• •			3	_	7
Mr. R. J. Smith		• •				3		3
Mr. A. O. Walker						5		8
Dr. White	••	• •	• •	••	• •	2	-	12
LEPIDOP	TERA	M) A	oths a	nd B	utte	rflies.)		
Mr. J. Arkle						48	_	175
Mr. G. O. Day	• •			• •	• •	24	_	78
Mr. F. T. Farrimond				• •		I	-	1
Mr. Gardner					• •	1	_	6
Miss Massey :.				• •		1		1
R. Newstead (junr.)						ľ		I
Curator R. Newstead						I		1
Mr. Chas. Oldham				• •		6	_	34
Mr. Prince	• •					2	-	12
Mr. Shepheard						1	_	1
Mr. R. J. Smith		• •				15	_	19
Miss L. E. Tomlin	••	• •	• •	• •		I	_	Ī

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	ROBT	. NE	WS	TEAD	, I	ř.E.S.,		

Curator.

APRIL 29th, 1897.

SECTIONAL REPORTS.

BOTANICAL.

A PAPER entitled "The Natural History of the principal Food Plants," was given by the Chairman of the Section (Mr. J. D. Siddall), on February 11th.

A. E. GOODMAN,

APRIL 29th, 1897.

Secretary.

ZOOLOGICAL.

Two Meetings of the Section were held on the following dates:—

1897.

Mar. 11th—"Notes and Observations on the Fauna of the District," by the following Members of the Society:—Mr. Alfred O. Walker, F.L.S., on Crustacea, &c.; Dr. W. H. Dobie, on Birds; Mr. J. Arkle, on Lepidoptera; The Curator (Mr. R. Newstead), on Animal Life in the Tremeirchion and Cefn Caves. &c.

Mr. Walker read a communication from Dr. Russell relating to the Zoology of the Colwyn Bay District; and also communicated many records of Marine Zoology, &c., principally from the same neighbourhood.

DR. HENRY DOBIE exhibited a small collection of Albino Birds, which he described; and also gave dates of the arrival of Spring Migrants. DR. Dobie also recorded the occurrence of a Corncrake, near the Estuary of the Dee, on December 23rd, 1896 [vide Zoologist, February, 1897, p. 86], and exhibited the specimen, which is now in the Museum Collection.

MR. ARKLE contributed notes on the re-occurrence of *Deilephila galii*, *Schiff*, in 1886; and the unusual abundance of *Timandra amataria*, *Lin*. in 1897.

The Curator concluded the Meeting by describing the habits and structural characters of the Lesser Horse-shoe Bat (*Rhinolphus hipposideros*, *Bech.*), and made observations on the Raven as observed under domestication. His remarks were illustrated by a series of Photographic Slides taken from life, which were his own preparations.

1897.

April 8th—"Notes on the Fauna of Puffin Island," by the Curator (MR. R. Newstead); at which were given a description of the Birds and Insects found upon the Island during a visit in 1896. The Lecture was illustrated by a collection of all the species taken; including a species of Scale Insect (Dactylopius radicum, Newstead); new to Science.

W. F. J. SHEPHEARD,

APRIL 29th, 1897.

Secretary.

GEOLOGICAL.

During the past Session a Second Course of Free Popular Lectures on Geology has been given on alternate Thursday Evenings. The subjects of these Lectures are as follows:—

- "The Crust of the Earth; its Character and Contents."
- "Movements of the Earth's Crust, and their effects."
- "How the Earth's Surface has continually altered."
- "The Rocks of Cheshire and North Wales, and their utility."
- "The Great Ice Age and its Local Effects."
- "Some account of the earliest Human and Animal Inhabitants of our Country."

The Lectures were illustrated by Maps, Diagrams, Specimens, and Lantern Slides, many of which were specially prepared.

The Lecture on the Great Ice Age was given by Mr. H. Morphy, and the others by the Secretary of the Section.

All were well attended; but the last two evoked very great interest, especially that portion of the story of the Great Ice Age relating to this immediate neighbourhood; and the account of the Pre-Historic Lake Village and its remains, which have been recently discovered at Glastonbury, and of which several photographs were exhibited.

ALFRED W. LUCAS,

APRIL 29th, 1897.

Secretary.

NATURAL PHILOSOPHY.

DURING the last Session a Course of Six Popular Lectures has been given in place of the ordinary Sectional Meetings.

These Lectures were as follows:-

- "Electric Lighting and Power"—Dr. KEITH.
- "Some Modern Applications of Chemistry to Medicine"—Dr. SCHIDROWITZ.
- "Ancient Chemistry, Alchemy, and the Alchemists"—Mr. J. BAIRSTOW, F.C.S.
- "Popular Beverages"-MR. J. WELSH, M.P.S.
- "Food: Its Analysis and Adulteration"-THE SECRETARY.
- "Coal: What we get from it "-MR. J. BAIRSTOW, F.C.S.

The Lectures were all well illustrated with experiments, and were very fairly attended; it is intended to continue them next Winter, if the Committee thinks fit.

Special thanks are due to Mr. BAIRSTOW, both for his own Lectures, and for the trouble he has taken in inducing others to Lecture.

W. F. LOWE,

APRIL 29th, 1897.

Secretary.

PHOTOGRAPHIC.

It has only been possible to hold three Meetings during the Session 1896-7. They have been well attended and of considerable interest.

1897. Jan. 12-Exhibition of Lantern Slides by Members of the Section.

Feb. 26—Exhibition of "The Amateur Photographer" Prize Lantern Slides, 1896.

April 22—Annual Meeting of Members. Lecture—"Pictorial Photography," by Mr. A. Horsley Hinton, Editor of "The Amateur Photographer."

CASH STATEMENT.

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RECEIPTS. £ s	, d.	PAYMENTS.	£	s.	d.
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J. H. SPENCEI

APRIL 29th, 1897.

Secretary.

LITERATURE.

On November 12th, 1896, a Paper was read by the Rev. F. S. M. Bennett, M.A., on "English Controversial Pamphlets of the Seventeenth Century." The Paper was of a very interesting character, and there was a fair attendance. There has been no other meeting of the Section.

ARTHUR H. FISH,

APRIL 29th, 1897.

Secretary.

ASTRONOMICAL.

During the past Session the Members of the Astronomical Section have been as fully engaged upon observational work as the almost continuously cloudy weather has permitted.

Under the generally adverse conditions which have prevailed, there has been but little to discuss at Meetings.

SIR ROBERT BALL lectured to a crowded audience, on the Recent Eclipse Expedition, at the opening of the Session; and at the following General Meeting of the Society MR. LONGBOTTOM continued this interesting subject.

On February 22nd a Worker's Meeting was held, at which reports of the work undertaken by the Section during the Winter were received and discussed.

HERBERT DOBIE, M.D.,

APRIL 29th, 1897.

Secretary.

PAXTON SOCIETY.

During the past year the usual Course of Saturday Evening Meetings have been held, at which the following Papers were read:—

1897.

Jan. 9—"From Chester to Paris via the Channel Islands, Normandy, and Brittany, with special reference to their Horticultural resources" (illustrated by Lime-light Pictures), by MR. G. P. MILN.

,, 23-"Roses," by REV. LIONEL GARNETT.

Feb. 6-"Flowers and their fertilization" (illustrated by Lime-light Pictures), by Mr. J. D. SIDDALL.

,, 20-" Gardeners of Antiquity," by REV. F. S. M. BENNETT.

Mar. 6—Conversational discussion on Chrysanthemums. Introduced by Mr. John Wynne Ffoulkes.

,, 20-" Spring Flowers," by MR. E. J. BAILLIE, F.L.S.

April 3—"The Art of Modelling Fruits and Vegetables in Plaster of Paris" (with practical demonstrations), by Mr. R. Newstead, F.E.S.

The average attendance of Members at these Meetings was better than in any previous Session, and the liveliest interest continues to be taken in all branches of Horticulture.

The Annual Fruit and Chrysanthemum Exhibition, held under the auspices of this Society, is now recognised as one of the best Exhibitions of its kind in the provinces; and there is abundant evidence to show that the holding of this Exhibition has done a great deal towards encouraging Fruit Culture throughout Cheshire and North Wales.

A new feature which was introduced at the last Exhibition to bring Growers and Consumers into direct contact with each other was generally appreciated.

N. F. BARNES, President. G. P. MILN, Secretary.

NOTE.—The Annual Fruit and Chrysanthemum Exhibition will be held in the Town Hall, Chester, on 16th & 17th November, 1897. Schedules of Prizes and all particulars may be had from the Hon. Secretary, or from any Member of Committee.

The Hon. Treasurer in account with the Chester Society of Natural Science and Literature, for the Year ending April 30th, 1897.

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C. R. ENOCK, C.A., HON. AUDITORS. BERESFORD ADAMS, 18TH MAY, 1897-We certify the above Statement to be a correct abstract from the Books and Accounts of the Honorary Treasurer, and that it is duly vouched.

JOHN SIMON, HON. TREASURER.

"KINGSLEY MEMORIAL" FUND.

STATEMENT OF ACCOUNT for the Year ended 30th April, 1897.

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14th APRIL, 1897-Audileu an

HON. TREASURER.

EDMUND J. BAILLIE,

AUDITOR. J. H. A. HALL,

JUBILEE PRIZES (£5 each.)

The President (Mr. T. Shepheard, F.R.M.S.) offers the following Prizes for Microscopical Slides:—

- Botany.—To illustrate the structure of different parts of Plants, either by using stains or not; this section may include Desmids, Diatoms, Conferva, and all Microscopical Plants. (The definition as to Plant and Animal being left to the Adjudicators.)
- Geology. Slides which best illustrate Rocks (both Crystalline and Fossiliferous) mounted as Polariscope objects or otherwise.
- 3. Zoology.—To illustrate muscular and nerve tissue; injected preparations to show the Veins and Arteries in situ; both Sea and Fresh-water Microzoa, such as Polyzoa, Rotifera, Hydrozoa, Medusæ, and Sponges, mounted to show their cilia and tentacles extended as described in "Cole's Modern Microscopy," a copy of which is in the Museum Library.

Each Slide must be mounted by the Competitor, and labelled "Jubilee," with a clear description of the object.

The Prize Slides shall become the property of the Society, if so determined by the Committee, and shall be exhibited at the Conversazione in the Autumn.

The competition to be open, not only to Members of the Society, but to Students attending the various Classes in the Grosvenor Museum, and all persons residing within the district embraced by the Society.

The Slides must be sent in to either of the General Secretaries of the Society on or before the 1st September next.

KINGSLEY MEMORIAL PRIZES,

Open to any Resident within the Society's District.

- The Committee have pleasure in aunouncing that a PRIZE not exceeding TEN POUNDS is offered for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.
- In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.
- *** All Collections must be made in Cheshire and North Wales, or the Seas adjoining thereto, by the persons competing.
 - The Collections, Essays, or Notes of Observations, may be sent in to either of the General Secretaries on or before 1st September, and the awards will be made at the Conversatione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

PAST PRESIDENTS.

1871 to 1875-Rev. Charles Kingsley, Canon of Chester (Founder of the Society.)

1875 ,, 1891-Prof. T. McKenny Hughes, F.R.S.

1801-2

ALFRED O. WALKER, ESQ., J.P., F.L.S. HIS GRACE THE DUKE OF WESTMINSTER, K.G. 1892-3

W. M. Dobie, Esq., M.D., J.P., F.R.A.S. W. M. Dobie, Esq., M.D., J.P., F.R.A.S. H. STOLTERFOTH, Esq., M.A., M.D., J.P. H. STOLTERFOTH, Esq., M.A., M.D., J.P. 1893-4 1894-5

1895-6

1896-7

KINGSLEY MEMORIAL MEDAL,

ESTABLISHED 1877,

" For having contributed materially to the promotion and advancement of some branch or department of Natural Science."-Vide Trust Deed.

1877-Mrs. Chas. Kingsley (In Memoriam)

1878—JOHN PRICE, M.A. 1879—Sir Philip de Malpas Grey-Egerton, Bart., F.R.S.

1880-Prof. T. McKenny Hughes, F.R.S.

1881—D. Mackintosh, F.G.S. 1882—Isaac Byerley, M.R.C.S., F.L.S.

1883—George W. Shrubsole, F.G.S.

1884-ALFRED OSTEN WALKER, F.L.S.

1885—John Davies Siddall. 1886—Henry Stolterfoth, M.A., M.D.

1887-WILLIAM SHONE, F.G.S. 1888-THOMAS SHEPHEARD, F.R.M.S.

1889-Thos. Ruddy.

1890-REV. CHAS. WOLLEY-DOD, M.A.

1891-ROBERT NEWSTEAD, F.E.S.

1892-OSMUND W. JEFFS.

1893 - EDMUND J. BAILLIE, F.L.S. 1894-W. MURRAY DOBIE, M.D.

1896-Rev. Arthur H. Fish, B.A., B.Sc.

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."- Vide Trust Deed.

1878 HELEN SMITH..... 55 Herbarium of Flowering Plants.

1879-GEORGE SHRUBSOLE ... Carboniferous Fossils. 5 1881-E. HOPKINS Cryptogamous Plants.

1882—George Shrubsole.. 10 Corals of the Mountain Limestone.

1886-ROBERT NEWSTEAD ... 10 Hymenoptera.

1887-JOHN LYON DENSON ... Notes on Observations illustrating the 5 Natural Science of the Society's District.

1888-LILIAN E. TOMLIN .. Coleoptera

5 | Diptera and Hymenoptera (Terebrantia.)

1889 EDITH C. TOMLIN ... W. E. SHARP...... 5 | Coleoptera.

1890—ALFRED J. NIXON.... Land and Fresh-Water Shells, 10 1892-W. E. SHARP 10 Coleoptera.

1896 - Alfred Newstead £5 5s. Hydradephaga (Water Beetles) and Life Histories of Insects.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee.)
British Museum (Natural History), Cromwell Road,
London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club.

Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club.

Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew, Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society. Manchester Microscopical Society.

Menai Society of Natural Science. Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Norwich Science Gossip Club. Nottingham Naturalists' Society.

Patent Office Library, 25, Southampton Buildings, Chancery Lane, London, W.C.

Postal Microscopical Society. Quekett Microscopical Society.

Smithsonian Institution, Washington, D.C.

The Missouri Botanical Garden, St. Louis, U.S.A.

United States Geological Survey.

Vatican Observatory, Rome. Vienna Natural History Museum.

Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union, Leeds.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Allman, Prof., F.R.S.	Ardmore Parkstone Dorset
*Ball, Sir Robert S., F.R.S.	Observatory Cambridge
Barrett, Chas. G., Esq., F.E.S.	39, Linden Grove, Nunhead, London, S.E.
Candolle, Mons. Casimir De	
Canadana Drof	Geneva
Cannizaro, Prof.	Rome
*Carruthers, W., Esq., F.R.S.	sington London S W.
Credner, Dr. Hermann	Leipzic
*Dawkins, Prof. W. Boyd, F.R.S	Woodhurst, Wilmslow road, Fallow-
	field, Manchester
*Grindon, Leo H., Esq.	20. Cecil Street, Greenheys, Manchester
*Hicks, H., Esq., F.R.S	Hendon Grove. Hendon, London,
	N. W.
Hooker, Sir J. D., K.C.S.I., F.R.S.	The Camp. Sunningdale. Ascot.
*Hughes, Prof. T. McKenny, F.R.S	Trinity College Cambridge
*Hull, Prof., F.R.S.	20 Arundel Gardens London W.
*Judd, Prof. J. W., F.R.S.	Royal College of Science South Ken-
	sington, London, S.W.
Kelvin, The Right Hon. Lord, Pres. R.S.	28 Charton agrams Landon S W
*Lubbock, Sir John, Bart., M.P., F.R.S.	Down Fambound Kent
*Morton, G. H., Esq., F.G.S	200 Flan Tour Timenest F
Norman Ray Canon F.P.S.	Barrens Borton Force House
Norman, Rev. Canon, F.R.S.	
Oxford, The Lord Bishop of	Durham
Poulton Prof E P E D C	The Parace, Cuaaesaon, Oxfora
Poulton, Prof. E. B., F.R.S.	Wykenam House, Oxfora.
*Rae, E., Esq., F.S, A.	Court Lodge, Birkenhead
Renard, The Abbé	
D" A D C IVI II	Natural History, Brussels
Röntgen, Prof. W. K.	Würzburg
Roscoe, Sir Henry E., F.R.S.	10, Bramham Gardens, London, S. W.
*Rudler, F. W., Esq., F.G.S	
	myn street, London, S. W.
Sanderson, Dr. Burden, F.R.S.	64, Banbury road, Oxford
*Sorby, Dr., F.R.S.	Broomfield. Sheffield.
*Vize, Kev. J. E., M.A.	Forden Vicarage, Welshpool
Wallace, Dr. A. Russell, F.R.S.	Parkstone, Dorset

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Day, Mr. George	Parr's Bank Limited Knutsford.
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*Wilkins, Mr. T. S.	IIttoreter
Williams, Mr. G. J., F.G.S.	HM Inspector of Mines Ranger

NOTICE.

THE ANNUAL SUBSCRIPTIONS are due on the 1st of May in each year. Members who have not paid for the present year are respectfully requested to forward the amount (Five Shillings) to the Hon. Treasurer, Mr. JOHN SIMON, Chemist: 4, Eastgate Row.

To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary according to Rule 8.

LIST OF MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

Acton, Mrs.Grove road, Wrexham

Adair, Major-General Stanley place
Adams, Mr. Beresford Shirley House, Liverpool road
Adams, Mrs,
Adams, Mr. Geo. F Ashbourne, Victoria road
Adams, Mr. J. F29B West Cliff, Preston
Ainsworth, Miss F Nicholas street
*Allen, Mr. Percy K22 Lorne street
Appleton, Mr. John Bouverie street
Archer, Mr. W. E 5 Lightfoot street
*Arkle, Mr. J Diocesan School, George street
Atkinson, Rev. Bernard N., M.A Kelsall, near Chester
Avery, Mr. Geo Town Hall
,,
Bailey, Mr. H. GrantCrypt Chambers
*Baillie, Mr. E. J., F.L.S Woodbine, Upton
Baillie, Mrs.
Baillie, Mrs
Bairstow, Mrs.
Baker, Miss Grey Friars
Ballance, Mr. WUpton Park
*Ballard, Mr. E. G., A.R.S.M Newton, Chester
Barber, Mr. John19 Eastgate street
Barbour, Mr. Geo., J.P Bolesworth Castle, Tattenhall
Barbour Mrs
Barker, Mr. A

Barker, Mr. R. Longueville 8 Eaton road
Barnes, Mr. N. F Eaton Gardens, Chester
Barnes, Rev. F., B.A
Barnsley, Mrs Tattenhall, Chester
Barraclough, Mr. E 9 Abbot's nook, Liverpool road
Barraclough, Mrs,
Barrow, Miss
Bassett, Miss C. E68 Northgate street
Baxter, Mr. Geo Poregate street
*Bedford, Rev. J. L., M.A., F.L.S 10 Abbey square
Bedford, Mrs, Best, Rev. J. D., M.A Diocesan Training College
Best, Rev. J. D., M.A Diocesan Training College
Birch, Mr. H. I
Birch, Miss 18 Upper Northgate street
Bird, Rev. W. R
Bithell, Mr. WMessrs. Beckett & Co., Eastgate row
Blackburn, Miss F. G Springhill, Boughton
Blayney, Mr. A
*Blogg, Rev. H. B., M.A Frodsham Vicarage, Cheshire
Blomfield, Admiral
Cross, London
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Boden, Mr. Robt. W Saighton Lodge, Chester
Bolland, Mrs 23 Hough green
Bolland, Mr. Frank
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*Bonnaile, Mr. Fredk. J., L.D.S, R.C.S4 Abbey square
Bonnalie, Mrs,
Boscawen, Mr. Noel
Bowers, Mr. H. R., J.P Richmond place
Bowers, Mrs , , , ,,
Bowles, Mr. T. S
Box, Mr. Henry
Boyson, Miss Annie H 28 Macaulay road, Clapham Common, London, S.W.
December Mr D D Walmare December
Bradbury, Mr. R. P Walmore, Dee banks Bramall, Mr. G. H Upper Northgate street
Branscombe, Rev. H. J 3 Abbey street Brassey, Miss
Brassey, Mr. Herbert Curzon park
Brassey, Mrs,
Brewer, Miss E
Bridgman, Mr. James Ewingc/o C. A. Ewing, Esq., Flookersbrook
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Broadbent, Miss Dorothy , , , , , , , , , , , , , , , , , , ,
Brown Mr. C. J.P. The Folly Flookersbrook
Brown Miss L. F.
Brown, Miss L. E
*Brown, Mr. F. F., M.A Eastgate row
Brown, Miss Constance L59 Upper Northgate street
Brown, Mrs. Samuel 1 Chichester street
Brown, Mr. G. Nöcl 2 White friars
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*Buckler, Rev. J. F., M.ABidston Rectory, near Birkenhead Buckley, Mr. Wm. Ireland, F.R.G.SThe Academy, Winsford, Cheshire
Buddicom, Mr. H. W., J.P Penbedw, Nannerch, Flintshire
Buddicom, Mrs, ,, ,,

Bullin, Mr. F., J.P., L.D.S., R.C.S20 Nicholas street
T) 11' 3.5
Bullin Miss E
Bull, Mr. H. F4, Sunny bank, Queen's park
Burges, Dr. R. Evans
Burrell, Mr. T. G119 Foregate street
Burrows, Mr. R
Putcher Mr. Toc
Butcher, Mr. Jas
Butlin, Colonel Belmont, Chester
Butlin, Mrs,
Campbell, Mrs. Pitcairn Vicar's Cross, Chester
Campbell, Miss Fittaini vicai's Closs, Chester
Campbell, Miss Pitcairn, ,, ,, Campbell, Mr. A. D. Pitcairn ,, ,,
Campbell, Mr. A. D. Fitcairi, ", ","
Carr, The Hon. Mrs Richmond lodge, Boughton
Carter, Mr. T
Challinor, Mr. R32 Eaton road Chalton, Mr. T. W
Chalton, Mr. T. W Wynstay, Hoole, Chester
Chalton, Mrs,
Chalton, Mrs "" Chapman, Mr. F. W
Chapman, Mr. W. R. (@ Messrs, Stead & Simpson's, 11 Fore-
Chapman, Mr. F. W. 42 Tarvin road Chapman, Mr. W. R. 6 Messrs. Stead & Simpson's, 11 Foregate street
*Chester, The Right Rev. The Lord Bishop of
Bishop of
Clarke, Miss Sybill Stanley House
Clarke, Mr. John
Clemence, Mr. S 2 Chichester street
Clemence, Mr. Thos
Clough, Miss
Clough, Mr. G. F 2 Hough green
Clough, Mrs.
Cockrill, Mr. C. P
Coe, Mr. D
Coe. Mr. Henry I 4 Bold terrace
Collinge, Mr. James Kinnerton Lodge, Chester
Connah, Mr. Jas The Laboratory, Somerset House, London, W.C.
Conway, Mr. Walter8 and 10 Old Bank Buildings
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Coppack, Mr. Chas Gladwyn, Liverpool road
Coppack, Miss,
Coppack, Miss Nellie,
Cordery Miss C* St. Agnes' School, Caldy, West Kirby
Coppack, Miss Nellie "," Cordery, Miss C: St. Agnes' School, Caldy, West Kirby Cornish, Rev. J. T. c/o Mrs. Tom Hughes, Uffington Cornish Mrs. Tom Hughes, Uffington
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Course Mr. W. G. I.B. Thornlishank Glasgow
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Cummings, Miss
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*Darby, Very Rev. J. L., D.D The Deanery Davies, Miss Henrietta
*Darby, Very Rev. J. L., D.D The Deanery Davies, Miss Henrietta
*Darby, Very Rev. J. L., D.D The Deanery Davies, Miss Henrietta
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*Darby, Very Rev. J. L., D.D. The Deanery Davies, Miss Henrietta 69 Boughton Davies, Mr. E. Henry 19 Francis street Davies, Mr. Joseph " Davies, Mr. John Parr's Bank Limited, Chester Davies, Mr. J. P 75 Crane street Davies, Miss St. Michael's Schools Davies, Rev. Clement The Vicarage, Rhosesmor, Holywell
*Darby, Very Rev. J. L., D.D. The Deanery Davies, Miss Henrietta 69 Boughton Davies, Mr. E. Henry 19 Francis street Davies, Mr. Joseph "," Davies, Mr. John Parr's Bank Limited, Chester Davies, Mr. J. P 75 Crane street Davies, Miss St. Michael's Schools Davies, Miss St. Michael's Schools Davies, Rev. Clement The Vicarage, Rhosesmor, Holywell Davies, Mr. W. L 6 Abbey green
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Delany, Mr John
Delany, Mrs
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Denson, Mrs ,, ,, ,,
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Dickson, Miss Lavinia
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Dickson, Mr. S. J. R
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Dobie, Dr. Herbert
Dobie, Mrs. " " "
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Dod, Miss Wolley,
Dodd, Mrs Wolley
Dodd, Mr. John60 Cambrian crescent
Dodds, Miss M. EvelynThornleigh, Hough green
Dowdall, LieutCol. A. P Curzon park
Dowdall Miss A
Duckworth Mr Henry F.L.S. F.G.S. Liverpool road
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Dutton, Mr. H. B Freshfield, 27 Curzon park
Dutton, Mrs
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Dye, Mr. Alfred B 72 Bouverie street
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Edwards, Mr. J
Edwardes, Miss Kate36 Sealand road
Eggers, Miss 4 Hough green Elliott, Dr. John, B.S., B.Sc24 Nicholas street
Elliott, Dr. John, B.S., B.Sc24 Nicholas street
Elliott, Miss
Enock, Mr. C. R 15 Hough green
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Enock, Miss, 19 Stanley house
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Ewing, Mil. C. II Diodacad time, I read to
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Farmer, Mr. Richard

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Gilbert, Mr. Egerton	
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Gray, Miss	
Griffith, Mr. G. B	
Griffiths, Miss 12 Holly Bank, Queen's park	
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*Griffiths, Rev. T. T., M.A,	
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77 11 1 36 0 D (A1	
Haddacks, Mr. C. R b Ash grove	
Haddacks, Mr. C. R	
Haddacks, Mr. C. K	

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Hall, Miss Josephine	Staunton House, near Coleford, Gloucester
Hamel, Miss	16 White friars
Hamilton, Mrs. Hampson, Mr. R.	
Hammon, Mr. R.	Halkyn road, Flookersbrook
Tampson, Mr. I E	The Blue Coat School, The Northgate
Hardy, Mr. J. M.	Halkyn road, Flookersbrook The Blue Coat School, The Northgate Alvanley, Warrington Dee hills park
Harris, Mr. T.	Dee hills park
Harris, Mr. 1. Harris, Mrs. Harrison, Miss	
Harrison Miss	13 Chichester street
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Harrison, Mrs. Haswell, Mr. G. H.	Queen's park
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Honshaw, Mr. 1	
Henshaw, Miss Edith E.	* * 27
Henshaw, Miss Florence M. Henshaw, Mr. T. A.	· · · · · · · · · · · · · · · · · · ·
Henshaw, Mr. T. A	27 Haikyn road, Floore
Henshaw, Mr. 1. A	8 Hough green
Heppel, Miss M. E.	Windsor lodge, Mickle Trafford Telegraph Department, Post Office Abbey House, Northgate street 8 Northgate street
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Higginson, Mr. T	I South Green
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Hignett, Mr. A. H	Shandon, Hough green
Hignett, Mrs. 1. H.	61 Northgate street
Hignett, Mrs. 1. 11. Hincks, Mr. H. T.	Alexandra villa, Liverpool road
Hobday, Mr. J.	Alexandra villa, Liverpool road
Hobday, Mr. E.	22 The Groves
Hobday, Mr. E. Hobday, Mr. Jas., B.A. *Hodges, Mr. W.	21 Hough green
*Hodges, Wit	
Hodges, Miss A. G	25. Pepper street
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Holland, Miss A. M.	Great Budworth, Northwich
Holme Rev Canon, M.A.	Great Budworth, Northwich
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Hostage, Miss	22 Eaton road
Howson, Rev. J. F., M.A	Egerton House, Opper Horengare
Howson, Miss Howson, Rev. G. J., M.A.	The Vicerage Crewe
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Jones, Mr. James M46 Cuppin street Jones, Mr. W. C26 Duke street	
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Kelsall, Miss H Abbot's court, Liverpool road Kemp, Mr. George	
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Kemp, Mr. George	. ·

Lloyd, Miss M. E	
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Macdonald, Mr. G Abbey square	
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Maddocks Mr Frank 10 Pepper street	
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Middleton, Mrs	
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Terny house, riode	
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Milh, Mrs	
Minshull, Mr. E The Northgate	
Minshull, Miss	
Minshull, Miss *Mitchell, Rev. J. C., B.D., F.R.A.S. Rutland Cottage, Parkgate root	ıu
Mantgomery Rev I K Abbot's villas, Liverpool load	
Montgomery, Mr. 10011 K., D. A., D. Sc., 5 Michiel Today Starter	
Manustan Mar T W H M R L S Larvin	
Morgan, Rev. I. B	
St. Gabilet's vicatage; 4	arwick
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Read, Mrs Kenwyn, Dee banks

Richardson, Mr. A Bridge street row	
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Roberts, Miss M	
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Roberts, Mrs. Overleigh, Hough green Roberts, Mrs. Overleigh, Hough green Roberts, Mrs. Oakfield, Upton Roberts, Mr. W. F. Well house Chester	
Roberts, Miss	
Roberts Mr. B. C., J.P., Oakfield, Unton	
Roberts, Mr. W. F Well house, Chester	
Teoperis, Mr. W. L Wen nouse, Onester	
Roberts, Mr. J. SheriffCurzon park	
Roberts, Mrs	
Roberts, Mr. J. 9 Lightfoot street Roberts, Mr. T. 32 St. Martin's-in-the-fields Roberts, Rev. H. D. 9 Chichester street	
Roberts, Mr. T	
Roberts Rev H D O Chichester street	
Rogers, Mr. James The Cross	
Rogers, Mr. James The Closs	
Rogers, Mr. W	
Rogerson, Mr. G. HPolefield, Liverpool road	
Royle, Mrs Hough Green House	
Royle, Mrs	
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Condition Mr. C. H. T.D. Change kill Molecul	
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*Sandford, Mrs. HenryQueen's School	
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Scott, Mr. John Brook lane Scott, Rev. Canon S. Cooper, M.A St. John's Rectory	
Scott, Rev. Canon S. Cooper, M.A., St. John S Rectory	
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Shand, Miss E. F,	
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Sharpe Mr Alan	
Sharpe, Mr. Alan, ,, *Shepheard, Mr. T., F.R.M.SKingsley, Bournemouth	
Shepheard, Mr. 1., F.K.M.SKingsley, Dournemouth	
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Shepheard, Mr. J. D National Provincial Bank, Wre:	kham
Shepheard, Mrs	kham
Shole, Mi. W., L.G.S Opton park	kham
Shone, Mrs.	kham
Shone, Mrs.	kham
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Shone, Mrs, Shone, Mr. Wm., Junr, Shone, Mr. Wm., Junr, Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D 10 Eaton road	kham
Shone, Mrs, Shone, Mr. Wm., Junr, Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D 19 Eaton road Siddall, Mrs, "	kham
Shone, Mrs, Shone, Mr. Wm., Junr, Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D 19 Eaton road Siddall, Mrs, "	kham
Shone, Mrs, Shone, Mrs, Shone, Mr. Wm., Junr, Strubsole, Mr. Alfred Town Hall square *Siddall, Mrs, Siddall, Mrs, Siddall, Miss Annie,	kham
Shone, Mrs. ", Shone, Mr. Wm., Junr. ", Shone, Mr. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Miss Annie ", Siddall, Miss G. M. ",	kham
Shone, Mrs. ", Shone, Mr. Wm., Junr. ", Shone, Mr. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Miss Annie ", Siddall, Miss G. M. ", Siddall, Mr. W. ",	kham
Shone, Mrs. ", Shone, Mrs. ", Shone, Mr. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Miss G. M. ", Siddall, Miss G. M. ", Siddall, Mr. W. ", Simon, Mr. John 4 Eastgate row	xham
Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. " Siddall, Miss Annie " Siddall, Miss G. M. " Siddall, Mr. W. " Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park	xham
Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. " Siddall, Miss Annie " Siddall, Miss G. M. " Siddall, Mr. W. " Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park	xham
Shone, Mrs. ", Shone, Mrs. ", Shone, Mrs. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Mrs Annie ", Siddall, Miss G. M. ", Siddall, Mr. W. ", Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road	kham
Shone, Mrs. ", Shone, Mrs. ", Shone, Mr. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Miss Annie ", Siddall, Miss G. M. ", Siddall, Mr. W. ", Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road Sivertsen, Miss Inga 120 Canning street, Liverpool	kham
Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Miss Annie " Siddall, Miss G. M. " Siddall, Miss G. M. " Siddall, Mr. W. " Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road Sivertsen, Miss Inga 129 Canning street, Liverpool Smith, Mr. T., J. P. Blacon Point, Chester	kham
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Shone, Mrs. "Shone, Mrs. "Shone, Mrs. "Shone, Mrs. "Shone, Mrs. "Shone, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. "Siddall, Miss Annie "Siddall, Miss G. M. "Siddall, Mr. W. "Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road Sivertsen, Miss Inga 129 Canning street, Liverpool Smith, Mr. T., J.P. Blacon Point, Chester Smith, Mrs. S. 16 Nicholas street Smith, Miss H. 3 Chichester street	kham
Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shone, Mr. Wm., Junr. " Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Miss Annie " Siddall, Miss G. M. " Siddall, Miss G. M. " Siddall, Mr. W. " Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road Sivertsen, Miss Inga 129 Canning street, Liverpool Smith, Mr. T., J. P. Blacon Point, Chester Smith, Mrs. S. 16 Nicholas street Smith, Miss H. 3 Chichester street Smith, Mrs. John Market square	kham
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Shone, Mrs. ", Shone, Mrs. ", Shone, Mrs. ", Shone, Mr. Wm., Junr. ", Shrubsole, Mr. Alfred Town Hall square *Siddall, Mr. J. D. 19 Eaton road Siddall, Mrs. ", Siddall, Miss Annie ", Siddall, Miss G. M. ", Siddall, Mr. W. ", Simon, Mr. John 4 Eastgate row Simpson, Mr. Ricardo Elsinore, Curzon park Sitwell, Mrs. Eaton road Sivertsen, Miss Inga 129 Canning street, Liverpool Smith, Mr. T., J. P. Blacon Point, Chester Smith, Mrs. S. 16 Nicholas street Smith, Mrs. A. Chichester street Smith, Mrs. John Market square Smith, Mr. John Market square Smith, Mrs. J. Aldford, Chester Smith, Mr. R. J. Aldford, Chester Smith, Mr. R. J. Aldford, Chester	kham
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Sparling, Rev. W., M.A Upton Vicarage, Chester *Spencer, Mr. J. H 36 Bridge street Stanyer, Mr. William 30 Newgate street Stevens, Mr. T 14 Eastgate row Stewart, Mrs 13 Stanley place *Stolterfoth, Dr., M.A., J.P. 1 Grey friars Stolterfoth, Mrs ,, Stolterfoth, Miss ,, Stonex, Rev. F. Tilney, M.A. Abbot's Grange, Liverpool road Storr, Mr. F 21 The Groves Storr, Miss , Storrar, Mr. Jas., M.R.C.V.S. 4 Park street Storrar, Mrs. Jas Spyntirion, Chichester street Storrar, Mrs. Jas Newgate Street House Strong, Mr Gas Works, Chester Sumner, Mrs. A South view, Eaton road	
Tasker, Mr. W	
Tatlock Rev Canon 21 St John street	
Tatlock, Rev. Canon21 St. John street Taylor, Mr. Hy. Enfield, J.P., M. Inst. C.E., Grey friars House	
Taylor, Mr. Frank	
Taylor, Mr. Frank	
Taylor, Mr. J. G ,, Taygarth House, Newgate Street Taylor, Mr. J. G ,, ,, ,,	
Taylor, Miss,	
Taylor, Mr. John	
Taylor, Mr. John	1.W.
Taylor, Mr. Hy., F.S.A 12 Curzon park	
Taylor, Mrs. G 11 Bold square	
Thomas, Mr	
Thomas, Dr. E. J. Haynes ,,	
Thomas, Miss Constance ,,	
Thomas, Miss F. M,	
Thomas, Mr. Maurice41 Halkyn road, Hoole	
Thomas, Mr. Felix	
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Thomas, Mr. W. C 58 Northgate street	
Thompson, Mr. Hy Brightholme, Curzon park	
Thompson, Mrs	
Thomson, Miss I Cambrian view	
Thornthwaite, Miss E. Mc/o Mrs. Hincks, Northgate street	
Tilston, Miss 1 King's buildings Tomkinson, Mr. Jas., J.P. Willington Hall, Chester Tomlin, Mrs. Thorpe villa, Liverpool road	
Tomlin Mrs. Thorne wills Liverpool road	
Tomlin, Miss Lilian Ethel,	
Tomlin, Miss Edith Clarabel	
Tomlin, Miss Edith Clarabel, ", Townshend, Mr. C. W., J.P Trevallyn, Wrexham	
TICIAWIN, Mr. H. D., I.P. Shorwick park I hester	
Trelawny, The Hon. Mrs. "" Tushingham, Mr. T44 Brook street	
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Tyrer, Mrs. AlfredPlas Newton, Chester	
Vernon Mr W	
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Wakefield, Mr. RobertNewton Hall Gardens	
Wakefield, Mr. T Lorne street	
Wakefield, Mr. T	
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*Walker, Mr. A. O., J.P., F.L.S Nant-y-Glyn, Colwyn Bay
Walker, Mrs
Walker, Mrs
Ward, Miss 18 Eaton road
Watts, Mr. C. T. F The Grosvenor Museum
Way Mr N A E I Stanley street
Weaver, Mr. W. M. Westminster buildings
Weaver, Mr. W. M. Westminster buildings Weaver, Mr. Thos. Fern Cottage, Christleton
*Webster, Mr. G. Watmough, F.C.S Brook lodge, Brook lane
Webster Mr Sirrell M
Webster, Miss. Amy B30 St. Martin's-in-the-fields
Wells Mr F Eccleston Chester
Wells, Mr. E
*Welsh, Mr. John, F.C.S12A Seller street
Westminster, His Grace The Duke of, K.G Eaton, Chester
Westminster, his Grace The Duckers of
Westminster, Her Grace The Duchess of,
Whichello, Mr. H., M.R.C.S The Mount, Tattenhall, Chester
White, Miss E
Whiteley, Mr. F
Whiteley, Miss M. L 30 Sealand road
Wigg, Mr. Charles Hoole bank, Chester
Wigg, Mr. Walter J The Firs, Newton
Wilbraham, Miss E 5 King's buildings
Wilbraham, Miss F
Wilkinson, Mr. R49 Cambrian view
Wilkinson, Miss Jane
Williams, Mr. J. EWestminster buildings
Williams, Mr. John
Williams, Rev. J. R., M.A Pulford Rectory, Wrexham
Williams, Miss
Williams, Mr. R. J
Williams, Miss Aldersey96 Watergate flags
Williams, Mr. James Egerton house, Hoole road
Williamson, Mrs The Gables, Flookersbrook
Wiseman, Mr. C The Poplars, Dee banks
Wiseman, Mr. Henry,
Wood, Mr. R. Stewart Eccleston, Chester
Wood, Miss28 Queen street
Wood, Mr. T. H
Wood, Mrs. A
Woodfin, Miss
Woodward, Mrs The Shrublands, Hoole
Woodward, Mrs
Wright, Mr. A. J
Wright, Mrs
Wynne, Mr. Geo. F Has Gwyn, Mineta, Wickham
Wynne, Mr. J. H41A Tarvin road
Wynne, Mrs
Yeadon, Mr. Thos 28 St. Anne street
Yerburgh, Mr. R. A., M.P27 Prince's Gate, London
Yerburgh, Mrs,



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*** The New Edition of the Catalogue of Books in the Society's Library is now published, and may be obtained at 4, Eastgate Row; or from the Museum; price 3d. each.

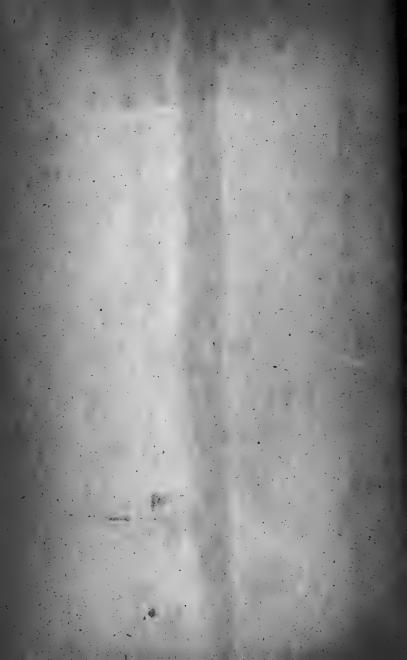
Copies of Nos. II. and III. of the Society's Proceedings (price 2/6 each), and No. IV. (5/-), may be obtained at the Museum.

No IV. Copy (recently published) contains exhaustive and interesting Papers on "The Silurian Rocks of North Wales," and "Caves and Cave Deposits" (by PROF. MCKENNY HUGHES, F.R.S.); "The Chester Mysteries" (by Mrs. Henry Sandford); "The Climate and Natural History of the District" (by Mr. A. O. WALKER, F.L.S.); "The Heron and Heronries of Cheshire and North Wales" (by Mr. R. Newstead, F.E.S.); "Subterranean Erosion and some of its effects" (by Mr. W. Shone, F.G.S.); "Birds of West Cheshire, &c." (by Dr. W. H, Dobie), &c., &c.









CHESTER

Society of Patural Science & Literature

(Founded by Charles Kingsley, 1871.)

TWENTY-SEVENTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS,

FOR THE YEAR 1897-98.



CHESTER PRINTED BY G. R. GRIFFITH, GROSVENOR STREET.

MDCCCXCVIII.



CHESTER SOCIETY

OF

NATURAL SCIENCE AND LITERATURE

(FOUNDED BY CHARLES KINGSLEY, 1871.)

TWENTY-SEVENTH

ANNUAL REPORT

AND

STATEMENT OF ACCOUNTS FOR 1897-98,

AND THE

LIST OF MEMBERS FOR 1898-99;



ALSO

A LIST OF THE KINGSLEY MEMORIAL PRIZES OFFERED FOR COMPETITION, &c.

CHESTER:

PRINTED BY G. R. GRIFFITH, "THE CASTLE" PRINTING WORKS.

MDCCCXCVIII,

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MR. J. A. McMICHAEL, B.A., B.Sc.
MR. W. SHONE, F.G.S.

Bon. Huditors:

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Curator and Assistant=Librarian:

MR. R. NEWSTEAD, F.E.S., The Grosvenor Museum.

Assistant=Secretary : Mr. T. HIGGINSON.

Representatives of the Society upon the Grosvenor Wuseum Management Committee. Rev. A. H. FISH, B.A., B.Sc. | Mr. G. P. MILN, | Mr. W. F. J. SHEPHEARD. | Mr. J. D. SIDDALL. | Mr. J. H. SPENCER. | Mr. G. WATMOUGH WEBSTER, F.C.S.

RULES.

1. - That the Title of this Society be " The Chester Society of Natural Science and Literature," and that its objects be the promotion of the study of Natural Science and Literature by Lectures, Field Meetings, the Reading and Discussion

2.—That the Officers be a President, Eight Vice-Presidents, Treasurer, One Scientific Secretary, Two General Secretaries, a Chairman and Secretary for each Section (nominated by the Section), and a Librarian. 3.—That the Committee consist of the above named Officers, and of Twelve other Members of the Society; and that the practical management of the

Society be vested in such Committee, subject to the following Rules:—

4.—The name of any Candidate for Membership of the Society, with those of a Proposer and a Seconder, must be sent in writing to the Secretaries or Treasurer for the Committee, and shall be by them submitted for election at the next ensuing General Meeting; and when elected the Candidate shall become a Member upon payment of the Annual Subscription.

5.-That the Subscription be 5/- per annum, payable in advance, and due the 1st of May in each year. Any person duly elected may become a Life Member upon payment of £5.

6.—That distinguished scientific men, or any persons who may render special service to the Society, may be elected Honorary Members or Corresponding Members, on nomination by the Committee. The number of Honorary Members

7.—That each Member shall be allowed to introduce one non-resident friend may not exceed 'Thirty. at any of the General Meetings, except at the Annual General Meeting; but a Member may introduce a friend, whether resident in Chester or not, at any of the Sectional Meetings. The Chairman and Secretary of each Section, may, on application, allow a Member to introduce more than one friend to their own

8.—That any Member desirous of withdrawing from the Society, shall give Sectional Meetings. notice (in writing) to either of the General Secretaries, before the end of the financial year. In the absence of such written notice the Member shall be

liable for the current year's Subscription and all arrears.

9.—The names of Members whose Subscriptions are two years in arrear, after a final application has been made by the Secretaries or Treasurer, shall be

erased from the list of Members. 10.-A General Meeting shall have the power of expelling any Member whose conduct they deem objectionable, providing special notice has been given on the Society's Circular convening the Meeting, and that at least two-thirds of the Members present agree thereto.

11 .- That the Committee shall meet monthly for the despatch of business.

12. -That the Committee shall arrange General Field Meetings during the Five Members shall form a quorum. The place of meeting shall be fixed by the Committee, and due notice be given by the General Secretaries. In case of bad weather, the Members of the Committee present shall decide whether such meetings be postponed or not.

13. - That the Committee shall also arrange at least six General Evening Meetings in the year, at which Papers shall be read and discussed. No Paper shall be read without the previous sanction of the Committee. Objects of

scientific interest may be exhibited at these Evening Meetings.

14 .- That the Annual General Meeting of the Society shall be held in the month of May. At this Meeting the Officers and Committee of the Society, and two Auditors for the ensuing year, shall be elected. If the number of nominations for any office exceeds the number of vacancies the election shall be by Ballot. The Officers' Reports and Financial Statement, made up to the end of April, and duly audited, shall also be submitted, and read if desired.

15.-Nominations for the Committee and Auditors shall be sent in writing to either of the General Secretaries at least ten clear days previous to the

16.—The names of all persons to be submitted to the Annual General Annual General Meeting. Meeting as Officers and Committee, and also all Financial Statements and any proposed alterations of Rules, shall be posted on the Notice Board in the Vestibule of the Museum, at least six clear days previous to the Annual General Meeting, for the information of Members, who shall be apprised of such publi-

cation on the Notice convening the Meeting. 17 .- The Committee shall fill any vacancy that may occur before the next

Annual General Meeting.

18.—Any proposed alterations in the above Rules shall be notified to either of the General Secretaries at least ten clear days before the Annual General Meeting, and shall only be adopted if sanctioned by at least two-thirds of the Members present. No alteration in these Rules shall otherwise be made.

ANNUAL REPORT.

THE Committee of the Chester Society of Natural Science and Literature have the pleasure of again presenting to its Members the Annual Report. The Society has now carried on its work for twenty-seven years. The past year has been remarkable for a large increase of the ordinary Members—ninety-four new names being added to the list—showing that the general usefulness of the Society, and the work which it is doing, are appreciated by our citizens.

We have to record with regret the great loss our Society has sustained during the past year in the death of its well-known Member, Mr. E. J. Baillie, F.L.S. His admirable knowledge of Botany and Horticulture was always at the service of our Society, whilst his list of the Flora of the neighbourhood of Chester still remains as a memorial of his steady work. In addition to being a Member of our Committee, and Treasurer of the Kingsley Memorial Fund, Mr. Baillie was one of the moving spirits and workers amongst those who brought about the erection of the Grosvenor Museum, and to the last he identified himself with all its interests, and was always ready with counsel and judicious help.

The Library and Museum are in good order, and reflect the highest credit on our Curator, Mr. Newstead, who never lets an opportunity escape him of securing useful works for the Library and additions to the Museum, so that we may hope in time to have a model local collection; and here I may quote a passage from Sir W. H. Flower's "Essays on Museums and other subjects connected with Natural History":—"Before long a well-arranged and well-"labelled Museum will be acknowledged as a necessity in

"any well considered scheme of educational progress. The "Museum and Library will go hand in hand as essential "complements to each other in the advancement of Science "and Art and intellectual development generally. A book "without illustrations is of comparatively little value in "teaching many of the most important subjects now com-"prised in general education. A Museum should be a "book, or rather a library of books, illustrated not by "pictures only, but by actual specimens of the objects "spoken of."

It may be of interest to our Members to know that the Board of Agriculture has lately been consulting our Curator on the subject of the San José Scale Insect, which at one time it was feared might become a pest in this country. Mr. Newstead's intimate knowledge of scale insects has, I hope, been of service to the Board. The study of these minute pests has been with him the work of many years, and I think our Society may be justly proud to have a Curator who is certainly one of the best living authorities on this subject.

The Kingsley Memorial Fund Account will be placed before the Meeting, with a detail as to how the Account now stands.

The Diamond Jubilee Commemoration of the 60th Year of Her Majesty's Reign, to a certain degree interrupted the usual work of our Society; but this can in no way be regretted, seeing that the peace and prosperity enjoyed during this long reign have tended materially to the advancement of Science and Art in all their branches, adding not a little to the sum of human happiness.

The financial position of the Society will be placed before you by our Honorary Treasurer, Mr. John Simon.

The arrangements by which the Society carries on its work will be considered under the following heads:— EXCURSIONS, CONVERSAZIONE, LECTURES, and SECTIONAL

MEETINGS. There were six Excursions during the Season to the following places:—

1897.

May 27th The Coombes, Broxton.

June 11th Shotwick.

June 16th......Bodorgan-Annual Excursion.

July 14th Aston Hall Colliery and Hawarden.

July 19th...... Delamere Forest and Meres.

Sept. 8th........Helsby—Works of the Telegraph Manufacturing Company, Limited.

These Excursions were well attended, and in the hope of stimulating our younger Members, our President, Mr. T. Shepheard, F.R.M.S., offered three prizes—in Botany, Geology, and Zoology, of £5 each. This was a very generous offer on his part, and ought to have led to some good results in the more diligent research and study of our own surroundings.

The Annual Conversazione was held on the 6th of October, 1897. There was a large gathering of Members, and the various exhibits were quite equal to those of previous LADY LETTICE GROSVENOR was kind enough to make the presentations. The Kingsley Memorial Medal was this year awarded to W. Henry Dobie, Eso., M.B., for his admirable Paper on the Birds of the District, which has added considerably to our knowledge, and has brought into a definite group one of the most interesting of our native The Kingsley Memorial Prize was awarded to Mr. Alfred Newstead for his collection of life-histories of Insects. The President's special Jubilee Prize was awarded to Mr. A. E. GOODMAN for his collection of Microscopic Botanical preparations. In replying to a vote of thanks to LADY LETTICE GROSVENOR, GEORGE WYNDHAM, Eso., M.P., gave us one of his interesting and instructive addresses, which are always greatly appreciated by our Members. Amongst special objects of interest, Mr. Spencer showed Ive's coloured photographs, an exhibition quite new to many of our Members.

During the past Winter there have been the following General Meetings:—

1897.

Oct. 28th—"Spiders—their Work and Wisdom," by the Rev. Dr. Dallinger, F.R.S.

Nov. 25th—"The Caves of New South Wales," by the Rev. H. D. ROBERTS. 1808.

Jan. 27th—"The Photochromoscope and Krömscöp, with explanations," by Mr. J. D. SIDDALL.

Feb. 24th—"Life and Death of Worlds," by Mrs. RICHARD A. PROCTOR.

Mar. 31st—"The Cinematograph and Photochromoscope, illustrated and
explained," by Mr. J. D. SIDDALL.

Apr. 28th-Exhibition of Spring Flowers, by the Paxton Society.

May 12th-Annual Meeting.

All these Lectures have been well attended. Mr. SIDDALL has twice brought before the Society that most wonderful of all modern discoveries, which enables the eye to see photographs as nearly as possible in their natural colouring. Although the problem of Colour Photography has not yet been solved, we are enabled, in a measure, to guess what it will be like when the secret is revealed. Besides Ive's invention we have been able to examine coloured photos by Prof. Joly's screens.

The various Sections of the Society have met during the past winter, and a detailed report of what has been done will be furnished by the respective Secretaries.

Your Committee have met sixteen times for the carrying on of the general business of the Society. These Meetings have been well attended, and the new Members elected at the last Annual Meeting have assisted considerably in carrying on the work of the Society. It is only by the help of all our Members that we can ever hope to make our Society a great moving and intellectual centre in this district. Therefore, we welcome with pleasure all those who will contribute the result of their studies and their scientific investigations. Your Committee trust that they have so far arranged the affairs of the Society, as to

stimulate inquiry and promote that helpful fellowship which is sure to bring satisfactory results.

Our best thanks are due to the Officers of the Society, and those of the Sections, for the able way in which they have conducted the various departments over which they have presided during the past year.

> HENRY STOLTERFOTH, M.A., M.D., Hon. Scientific Secretary.

MAY 12TH, 1898.

ANNUAL MEETING, MAY 12TH, 1898.

The Reports and Accounts for the past year were submitted and adopted;

On the Motion of the retiring President (MR. T. SHEPHEARD), MR. J. D. SIDDALL was unanimously elected President of the Society for the ensuing year, and delivered his Presidential Address;

The list of General and Sectional Officers duly nominated for the ensuing year was submitted, and twelve Elective Members of Committee balloted for; and a very hearty vote of thanks accorded to the Officers of the Society for their successful conduct of its affairs.



CURATOR'S REPORT.

THE following is an abstract of the Species and Specimens:—

ABSTRACT OF THE REPO	RT.		 Species Presented and Purchased.	Total of Species.	Total of Specimens
Geology			 4	4	22
Botany (Plants, &c.)			 34	34	99
Protozoa (Corals, &c.)			 12	12	37
Diptera (Two-winged Flies)			 14	14	19
Lepidoptera (Moths and Butterflie	es)		 24	24	56
Coleoptera (Beetles)			 29	29	44
Neuroptera (Dragon-flies, &c.)			 i	í	I
Hymenoptera (Bees and Wasps)			 31	31	79
Mollusca (Shells, &c.)			 3	3	25
Pisces (Fish)			 7	7	9
Reptilia (Snakes, &c.)			 í	í	9
Nests and Eggs			 20	20	84
Aves (Birds)			 19	19	22
Mammalia (Animals)			 5	5	6
Miscellaneous	• •	* *	1 3 1	3	40
biliscenaneous	• •	• •			40
Total	• •		 204	204	544

Compared with previous years, the number of additions is not great, but they include many rare and interesting species; and we are again pleased to offer our sincere thanks to those Field-Naturalists who have done so much for us in helping to build up our local collections, and in furnishing us with information relating to our Flora and Fauna. It is only by such aid that we can hope to form a thoroughly representative collection, and place on record the habitats of the plants and animals around us.

MR. ARKLE has constantly added to the *Lepidoptera*, and MR. A. O. WALKER to the *Colcoptera* and other orders. In the *Mollusca* our greatest help has come from MR. CHAS. OLDHAM; and we are also indebted to him and his colleague, MR. T. A. COWARD, for their interest in the *Mammalian* and *Avian Fauna*. We must also acknowledge our indebtedness to DRS. W. H. and HERBERT DOBIE, for their interest

in the Birds of the district, and through whose instrumentality we have been able to make the most valuable addition—from the Hon. Charles Wynne—of a Roughlegged Buzzard (*Beuteo vulgaris*); and the valued services of Mr. R. J. Smith, in procuring for us certain desiderata, cannot be over-estimated. By purchase we have also been fortunate in procuring a specimen of the Little Gull (*Larus minutus*.)

By purchase also our Geological series has been much enriched by a notable collection of Fossil Footprints, from Storeton, which makes our series one of the finest in the country. Your Curator has also been pleased to add a slab of Saurian Footprints and Tail Tracks, from a new locality at Eddisbury.

Six glazed cases, kindly presented by Mr. J. D. SIDDALL, have been fitted with a series of Geological specimens, specially selected for teaching purposes, to be loaned to institutions in the city; and we are glad to say they are now lodged at the Queen's School, where we hope they will be of educational value and interest.

LIST OF DONORS AND ADDITIONS.

•		G	EOL	OGY.					
							Species.	Spe	cimens.
Mr. Morphy .				• 1			I	_	1
The Curator .							I	_	I
Mr. Edward William	ms						2	_	20
	ВС	TAI	I) Y	Plants	, &c.)				
Miss Margaret T. G	riffitl	a					31		96
Mr. A. O. Walker							2		2
Dr. White		12			• •		ī		I
	PR	ото	ZOA	(Coral	s, &c	.) .			
Capt, C. W. Fieldin	ng	••	• •*	• •	••	• •	12	••	37
DII	PTE	RA	(Two	-wing	ged F	lies	i.)		
Mr. J. Arkle .							13		17
Mr. R. J. Smith			••				. 2		2

LEPIDOPTERA (Moths and Butterflies.)

						Species.	Spec	imens.
Mr. J. Arkle						13		29
Mr. E. J. Baillie (the late						I		I
Mr. A. E. Caldecutt						1		¥
Mr. Day						I		I
Mr. Gardner			••			1		1
Mr. A. E. Goodman						I		2
Miss Massey				••		I		1
Mr. R. J. Smith				••		5		20
Mi. R. J. Silita	• •	• •	••	••	•••	3		
COL	EOI	PTER	A (B	eetles	.)			
Mr. F. R. Bolland						2		5
Mr. J. F. Dutton						9		20
Mr. A. E. Goodman						1		1
Master John Newstead						2		2
Mr. A. O. Walker						15		16
				****		0 -)		
NEUROE	PTE	RA (I	Jrag o	n-FII	es, d	SC.		
Mr. J. Arkle	• •	• • ,	• •	• •	• •	1	• •	I
HYMENC	PTE	ERA	(Bees	and '	Was	sps.)		
Mr. J. Arkle						3		4
The Curator						4		6
Mr. J. Lyon Denson						5		15
Mr. George Dutton						I		12
Mr. Fairlie						3		3
Mr. A, E. Goodman						3		6
Mr. Shaw			• •	• •		I		1
Mr. Richard Simpson						I		9
Mr. R. J. Smith						9		22
Mr. William Weaver						ī		1
Wii. William Weaver	•••	• • •						
	LLU	JSCA	(She)	lls, &c	:.)			
Mr. Chas. Oldham	• •		• •	• •	• •	I	• •	6
Miss Payne	• •			• •	• •	2	• •	19
	PISC	ES (Fish,	&c.)				
Mr. J. Bairstow						1		1
Rev. Thomas Cox						I		1
Dr. H. Dobie						1		I
Mr. John Guy						2		3
Mr. E. Wells						1		I
Purchased						I		2
-								
RI	EPTI	LIA	(Snak	es, &	C.)			
Mr. R. J. Smith	• •	••	• •	**.	• •	1	**	I

NESTS AND EGGS.

						Species.	Spe	cimens.
Dr. W. H. Dobie						I		8
Mr. Fairlie	••			• •		I		3
Miss Lloyd Fletcher	• •					I		1
Mr. Hannah						2		3
Mrs. Kenyon						1		I
Mr. R. Newstead, senr.		• •				I		4
Mr. Chas. Oldham		• •		• •		2		8
Mr. Rogers	• •	• •				I	• •	5
Mr. R. J. Smith	• •	• •	• •	• •	• •	10	• •	51
	A	VES (Birds	s.,)				
Mr. G. C. Alletson						1		1
Mr. W. H. Barnes	• •					2		2
Mr. H. Denton Clark				• •		I		1
Dr. W. H. Dobie						1		2
Mr. Dumfee						I		1
Rev. T. J. Evans					• •	I		1
Mr. Garland	• •					1	• •	I
Mr. A. Monk				• •		I	• •	I
Mrs. Naylor		• •			• •	I	٠.	ť
Mr. Roberts		• •	• •	• •	• •	I		1
Mr. Shaw	• •	• •		• •	• •	I	• •	I
Mr. R. J. Smith	• •		• •	• •	• •	3	• •	5
Mr. Weaver	• •	• •	• •	• •	• •	I	• •	I
Mr. E. Wells	• •	. * *	• •	• •		I	• •	1
His Grace The Duke of		minster	• •	• •	• •	I	• •	1
The Hon. Charles Wyn	ne	• •	• •	• •	• •	I	• •	1
Purchased	• •	• •	• •	• •	• •	I	• •	1
MA	MM	IALIA	(An	imals	•)			
Mr. E. J. Baillie (the la	te)					1		1
Mr. Chas. Oldham			• •			I		2
Miss Parker			• •	• •		1		I
Mr. G. H. Rogerson	• •		• •			I	• •	I
Mr. Youd	٠.,	• •	• •	• •	• •	1	• •	I

MISCELLANEOUS.

- Mr. J. D. Siddall—Six Cases containing Geological Specimens, to be used for Teaching purposes.
- Mr. R. J. Smith—Potato growing in (illum) of Mammal.
- Mr. G. E. Wright-Collection of Mosses for Teaching purposes.

ROBT. NEWSTEAD, F.E.S.,

Curator.

MAY 12TH, 1898.

SECTIONAL REPORTS.

BOTANICAL.

During the past Session the Botanical Section has held a series of Five Popular Lectures in the Lecture Theatre of the Museum, which have been, on the whole, fairly well attended.

The dates, subjects of the Lectures, as well as the names of the Lecturers, are as follows:—

1897.

Nov. 4-"How to make out the Names of Wild Flowers," by Mr. J. D. SIDDALL.

" 18-" Stems and their Structure," by Mr. A. E. GOODMAN.

Dec. 2-" Grains and Grasses," by Mr. J. D. SIDDALL.

1898.

Jan. 6-" Ancestors of Plants," by MISS E. MACDONALD.

" 20—"Snowdon and its Flora: a Study in Distribution," by Mr. J. LLOYD WILLIAMS.

A. E. GOODMAN.

MAY 12TH, 1898.

Secretary.

ZOOLOGICAL.

Two Meetings were held on the following dates:—

Jan. 13.—Notes and Observations, by Mr. A. O. WALKER, F.L.S., Dr. W. H. Dobie, Mr. J. Arkle, and the Curator (Mr. Newstead.)

This was the usual Annual Meeting of the Section, and was well attended. Many of the records given by the various authors were of exceptional interest and value, and will probably form the nucleus of more extended papers hereafter. The Curator, Mr. R. Newstead, exhibited a unique series of photographs from life, of the Long-eared Bat (*Plecotus auritus*); and Dr. W. H. Dobie and Mr. Arkle also exhibited specimens to illustrate their papers.

April 14.—"The American Fruit Pest Scare" (The San José Scale Insect— Aspidiotus perniciosus, C.) Illustrated by Lantern Slides and Specimens, by the Curator, Mr. R. Newstrad, F.E.S.

The Lecturer stated the American Fruit Pest Scare originated with the action of Germany in the early part of the year, when that country passed a law forbidding the importation of infested fruit, since which time nearly all

the European Governments had taken the matter into consideration. He had twice been consulted by the Board of Agriculture in the matter, and had been able to fully satisfy them that the insect had not established itself in this country either upon fruit trees or cultivated plants of any kind, whether grown in the open air or under glass, or upon indigenous plants.

Mr. Newstead's opinion is entitled to the fullest consideration, for it is based upon many years of practical experience in plant and fruit culture, and nine years of scientific investigation of the injurious insects of this country. He thinks the insect is much more likely to establish itself here on imported plants, and suggests that such consignments should be rigorously inspected by experts; but is of opinion, however, that the pest will not thrive in this country as in America, and that if it should establish itself here it will become single-brooded like all the indigenous *Coccidæ* of Great Britain.

W. F. J. SHEPHEARD,

MAY 12TH, 1898.

Secretary.

GEOLOGICAL.

During the past Session there has been one Meeting of this Section (on December 9th), when Mr. A. W. Lucas, F.G.S., gave some account of the Liassic Formation, and its exposures in Dorsetshire, Lincolnshire, and especially at Whitby in Yorkshire. Numerous interesting Fossils of the various forms of life which are characteristic of these rocks were exhibited, many of them recently brought from Whitby and the locality.

EGERTON GILBERT,

MAY 12TH, 1898.

Secretary.

NATURAL PHILOSOPHY.

During the last Session two Papers have been read in this Section, one by Mr. J. A. McMichael, B.A., B.Sc., on March 3rd, entitled: "Modern Developments of Electricity," and the other by Mr. J. Bairstow, F.C.S., "An hour in a Chemical Factory," on April 21st.

Both Papers were well illustrated with Lantern Slides (MR. McMichael's being also illustrated with experiments), and were of a very interesting character. The Meetings were very fairly attended.

The Lecture on "Horseless Carriages" (February 10th), by Mr. E. Shrapnell, Smith, was also given on a night belonging to this Section, but should perhaps be considered

a General Meeting.

W. F. LOWE,

MAY 12TH, 1898.

Secretary.

MICROSCOPICAL.

This Section has held no Special Meetings during the past Session, but contributed as usual to the success of the Conversazione and several other Meetings when Microscopes were required.

J. D. SIDDALL,

MAY 12TH, 1898.

Secretary.

PHOTOGRAPHIC.

Although the Photographic Section as such has only been able to hold three Meetings during the Session, the Meetings of the parent Society have been of such a character as to make the Session 1897-8 in a great measure a photographer's session. At the Annual Conversazione the Section had an exhibition of members' work, and the Krömscop (Mr. Ive's method of Colour Photography) was shown and explained. The exhibition of Animated Photography by MR. SIDDALL was an attractive feature of the Conversazione. The Photochromoscope (Mr. Ive's instrument for throwing his colour photographs on the screen as lantern slides), has also been exhibited, together with Professor Joly's method of photography in the colours of nature. It will thus be seen that the Members of the Section have had unique opportunity to become acquainted with the latest developments of the photographic art. The Section has also, by invitation, contributed to the important Photographic Exhibition recently held in Manchester, the work comparing very favourably with that of other Societies.

On January 14th a collection of Lantern Slides by Members of the Section were passed through the Lantern, the following contributing slides:—Dr. Stolterfoth, Lieut.-Col. Dowdall, Messrs. W. Shepheard, R. Newstead, J. A. McMichael, Taylor, D. Jones, J. D. Siddall, and the Secretary. On March 17th the Chairman, Dr. Stolterfoth, gave an interesting lecture, "A New Method of Micro-Photography," which was a lucid exposition of a simplified method of obtaining photographs of minute bodies by means of microscope and camera.

The Annual Meeting of Members of the Section was held April 25th, 1898. The following officers were elected:—Chairman: Dr. Stolterfoth; Secretary and Treasurer: Mr. J. H. Spencer; Council: Lieut.-Col. Dowdall, Messrs. P. K. Allen, E. G. Ballard, F. Evans, A. Lamont, junior, F. W. Longbottom, J. A. McMichael, W. F. J. Shepheard, and C. W. Townshend. The Meeting resolved that use of the Dark Room or Enlarging Lantern be confined to Members of the Natural Science Society who have paid the current year's subscription of one shilling to the Photographic Section.

At the conclusion of the business meeting a Demonstration of the Carbon Process of Photographic Printing, &c., was given by Mr. W. H. Fromont whose skilful manipulations were followed with great interest by the Members present. Votes of thanks were accorded to Mr. Fromont, and to Messrs. Elliott & Son, Barnet, who kindly supplied most of the material for the Demonstration.

STATEMENT OF ACCOUNTS.

RECEIPTS. £ s. d. To Balance from 1897 o 18 0½ ,, Members' Subscriptions o 13 o	PAYMENTS. £ s. d. By Incandescent Gas Lamp for Enlarging Lantern, Standard,Reflectorand Tray 0 17 6 ,, Carriage to Manchester, Telegram,and Postages 0 6 10\frac{1}{3} ,, Balance 0 6 8
FIII 01	£1 11 0½

J. H. SPENCER,

MAY 12TH, 1898.

Secretary.

LITERATURE.

MEETINGS-

1897.

Nov. 11 .- "Coleridge: 'Ancient Mariner.'"-The Secretary.

1898.

Feb. 17.—Special Meeting. Lecture on "Matthew Arnold," with Lantern Slides,—Mr. HARPER GAYTHORPE.

Mar. 24.—"The Personality of Coleridge, as reflected in his Poems."— Mrs. Henry Sandford.

The Meetings have been well attended. Mr. Gay-Thorpe's Lecture was illustrated by a large number of slides, illustrating places and scenes in connection with Matthew Arnold's life and poems. A special interest was attached to the Paper on Coleridge, by the Authoress of "Thomas Poole and his friends."

ARTHUR H. FISH,

MAY 12TH, 1898.

Secretary.

ASTRONOMICAL.

The past Session has not been specially note worthy; still it has marked some progress, and there are signs of a revival of interest in Observational Astronomy. Several of our members are engaged upon systematic work, and their influence is steadily spreading.

The officers did not feel justified in accepting all the dates for meetings so kindly placed at their disposal by the Committee, as they were anxious not to over estimate the demand for astronomical information; but the three Lectures given proved very acceptable. Dr. Whichello gave a most interesting one on the "Sun," followed by Mrs. Proctor on "Life and Death of Worlds," and the Session concluded with Mr. Plummer's suggestive address on "Meteors."

The Secretary of the Section (Dr. H. Dobie) has been compelled to resign through pressure of other duties, but will give his valued support to his successor.

F. W. LONGBOTTOM,

Secretary.

MAY 12TH, 1898.

PAXTON SOCIETY.

The Membership of this Society now exceeds 200, a number far beyond the expectations of those who started it a few years ago.

Its Annual Fruit and Chrysanthemum Exhibition is now recognised as one of the best Exhibitions of its kind in the provinces; and there is abundant evidence to show that the holding of this Exhibition has done a great deal towards encouraging Fruit Culture amongst Farmers, Cottagers, and others throughout Cheshire and North Wales.

During the past year the usual Course of Saturday Evening Meetings have been held as follows:—

1898.

Jan. 8-Social Gathering of Members and Friends.

" 22-" Strawberry Culture," by MR. W. DISLEY.

Feb. 5-" Grape Growing for a private establishment," by Mr. C. FLACK.

", 19-" Forest Entomology," with descriptive notes on Gall-mites, Beetles, Sawflies, and other injurious Insects. Illustrated by a series of Lantern Slides, by Mr. A. T. GILLANDERS.

Mar. 5-"SIR JOSEPH PAXTON"-A biographical sketch, by Mr. G. P. MILN.

" 19—"Conversational discussion on the preparation, planting, and tending of an Orchard." Introduced by Mr. J. MOSFORD, Hatton.

April 2—" Exhibition of Spring Flowers," with conversational discussion on same. Introduced by Mr. ROBT. WAKEFIELD.

The average attendance at these exceeded that of any previous Session.

N. F. BARNES.

President.

NOTE.—The Annual Fruit and Chrysanthemum Exhibition will be held in the Town Hall, Chester, on 15th & 16th November, 1898. Schedules of Prizes and all particulars may be had from the Hon. Secretary, or from any Member of Committee.

The Hon. Treasurer in account with the Chester Society of, Natural Science and Literature, for the Year ending April 30th, 1898.

Dr. £ s. d. £ s. d.	Or,	£ s. d. £		s. d.
1897-8.	1897-8.			
By Balance from last Account 0 14 9	To Museum Management Committee-			
Subscriptions	Proportion of cost of Maintenance 60	0 0 09		
634 for Year 1897-8 @ 5/ 158 10 0	For use of Lantern 9	9		
20 1806-7 @ 5/ 7 10 0	1		9 69	0
1805-6 @ 5/	" Natural History Museum and Library	:	36 16	2
	" Printing, Stationery, &c	:	36 0	6
" Receipts from Excursions 23 13 8	" Expenses in connection with Excursions	:	23 13	3
" Receipts from Lectures, Conversazione, &c 72 o 3	" Expenses in connection with Lectures, Conver-	onver-		
Grant to Society's Natural History Museum from	sazione, &c	:	71 18 10	0
"Kingsley Memorial Fund" 15 0 0	" Postages	:	21 16	7
	,, Salaries-			
	Assistant Secretary 10	0 0		
	Mr. Alfred Newstead 10	0		
			20 0	0
	", Subscriptions—			
	Palæontographical Society I	0 1		
	Entomological Society I	I 0		
1808-April 20thBalance due to Treasurer			61	0
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3RD MAY, 1898-Exa	3RD MAY, 1898-Examined and found correct,			
	C. R. ENOCK, C.A., How AUDITIONS	d OTT C		
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C. R. ENOCK, C.A.,
BERESFORD ADAMS, } Hom. AUDITORS.

"KINGSLEY MEMORIAL" FUND.

Ė	STATEMENT	OF	ACCC	.NO	T	or ti	STATEMENT OF ACCOUNT for the Year ended 30th April, 1898.	ម
Di.								•
1897-8.	:	:	:		£ s. d. 8 5 4	d.	1897-8. By Purchase of Collection of Fossil Footprints from	5. d.
10 Balance Dividends on Great Western Railway Company	reat Western Rail	way (Compan	٠	٥	-	: :	2 11 0
Consolidated Ordinary Stock Sale of Society's "Proceedings"	Consolidated Ordinary Stock 17 o ale of Society's "Proceedings" 110		17 0 0		0 01	0	", Prize awarded to Mr. Alfred Newstead ". Interest charged by Bank	5 5 0
							Balance	9 6 4
				ı		1		£27 3 4
				23	£27 3 4	4		2
To Balance in Bank	:	:	:	9 6 4	9 6	4		
						9T.	9TH MAV, 1898—Examined and found correct, 10HN DAVIES.	
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HON. AUDITOR.

HON, TREASURER.

G. P. MILN,

KINGSLEY MEMORIAL PRIZES

ARE OFFERED AS FOLLOWS :-

To any Resident in the Society's District.—A PRIZE not exceeding TEN POUNDS for the most valuable COLLECTION OF OBJECTS IN ANY ONE BRANCH OF NATURAL HISTORY made in the Society's District. The amount given will be proportionate to the quality of the Collection.

In addition to the above Prize, the Committee have decided that, in order to encourage scientific research, they will make Grants, from year to year, of sums not exceeding TEN POUNDS, out of the Kingsley Memorial Fund, for COLLECTIONS, ESSAYS, or NOTES OF OBSERVATIONS illustrating the NATURAL SCIENCE OF THE SOCIETY'S DISTRICT.

To Young People (not over 16 years old) the Children of Members, First Prize, £1 1s.; Second, 1os. 6d.; Third, 5s.; for:—

- (I) The best Collection of 100 Wild Flowers;
- (2) Ditto ditto of Land and Fresh-water Shells;
- (3) Ditto ditto of Butterflies and Moths.

All Collections must be made in Cheshire and North Wales, or the Seas adjoining thereto, by the persons competing.

The Collections, Essays, or Notes of Observations must be sent in to either of the General Secretaries on or before 1st September, and the awards will be made at the Conversazione next succeeding the adjudication.

NOTE.—The Committee have the option of retaining the successful Collections, &c., or any part of them, for the Society.

Intending Competitors can obtain all particulars, and the conditions under which the Prizes are offered, from either of the General Secretaries; and all Collections, &c., must be sent in to either of them on or before the 1st September in each year.

PAST PRESIDENTS.

1871 to 1875—Rev. Charles Kingsley, Canon of Chester. (Founder of the Society.)
1875 ,, 1891—PROF. T. MCKENNY HUGHES, F.R.S. ALFRED O. WALKER, ESQ., J.P., F.L.S. HIS GRACE THE DUKE OF WESTMINSTER, K.G. 1801-2 1892-3 W. M. Dobie, Esq., M.D., J.P., F.R.A.S. W. M. Dobie, Esq., M.D., J.P., F.R.A.S. 1893-4 1894-5 H. STOLTERFOTH, Esq., M.A., M.D., J.P. H. STOLTERFOTH, Esq., M.A., M.D., J.P. 1895-6 1896-7

T. SHEPHEARD, Esq., F.R.M.S. 1897-8

KINGSLEY MEMORIAL MEDAL,

ESTABLISHED 1877,

"For having contributed materially to the promotion and advancement of some branch or department of Natural Science."—Vide Trust Deed. 1877-MRS. CHAS. KINGSLEY (In Memoriam)

1878-JOHN PRICE, M.A.

1879—SIR PHILIP DE MALPAS GREY-EGERTON, BART., F.R.S.

1880-Prof. T. McKenny Hughes, F.R.S.

1881—D. MACKINTOSH, F.G.S. 1882—ISAAC BYERLEY, M.R.C.S., F.L.S.

1883—George W. Shrubsole, F.G.S.

1884-ALFRED OSTEN WALKER, F L.S.

1885—John Davies Siddall.

1886-HENRY STOLTERFOTH, M.A., M.D.

1887-WILLIAM SHONE, F.G.S. 1888-THOMAS SHEPHEARD, F.R.M.S.

1889—Thos. Ruddy. 1890—Rev. Chas. Wolley-Dod, M.A.

1891-ROBERT NEWSTEAD, F.E.S.

1892—OSMUND W. JEFFS. 1893—EDMUND J. BAILLIE, F.L.S.

1894-W. MURRAY DOBIE, M.D. 1896—Rev. Arthur H. Fish, B.A., B.Sc.

1897-WILLIAM HENRY DOBIE, M.B.

KINGSLEY MEMORIAL PRIZES,

ESTABLISHED 1877,

"For the reward, encouragement, and the advancement of the pursuit and study of Natural Science."-Vide Trust Deed.

1878 { HELEN SMITH...... EDWIN W. OKELL £5 Herbarium of Flowering Plants. 1879—George Shrubsole ... 5 Carboniferous Fossils.

1881—E. HOPKINS...... Cryptogamous Plants.

1882-GEORGE SHRUBSOLE .. Corals of the Mountain Limestone. 10 1886-ROBERT NEWSTEAD .. ΙĐ Hymenoptera.

1887 - John Lyon Denson.. Notes on Observations illustrating the 5 Natural Science of the Society's

District. 1888—LILIAN E. TOMLIN ... 1889 { EDITH C. TOMLIN ... W. E. SHARP Coleoptera. 5 | Diptera and Hymenoptera (Terebrantia.) 5 | Coleoptera.

1890—ALFRED J. NIXON Land and Fresh-Water Shells. IO

1892-W. E. SHARP Coleoptera. 1896—Alfred Newstead £5 5s. Hydradephaga (Water Beetles) and Life

Histories of Insects. 1897-ALFRED NEWSTEAD £5 5s. Life Histories of Insects.

SOCIETIES ASSOCIATED,

WITH WHICH THE SOCIETY EXCHANGES PUBLICATIONS.

Academia Nacional de Ciencias de la Republica Argentina, Cordoba.

Barrow Naturalists' Field Club.

Brighton and Sussex Natural History Society.

Bristol Naturalists' Society.

British Association (Corresponding Society's Committee). British Museum (Natural History), Cromwell Road, London, S.W.

Burnley Literary and Scientific Club.

Cardiff Naturalists' Society.

Cassel Society of Natural Science.

Dudley and Midland Geological and Scientific Society and Field Club.

Epping Forest and County of Essex Naturalists' Field Club. Glasgow Natural History Society.

Hertfordshire Natural History Society and Field Club. Huddersfield Naturalists' Society.

La Société d'Histoire Naturelle de St. Wladimir á Kiew. Russie.

Leeds Naturalists' Club.

Liverpool Geological Society.

Liverpool Geological Association.

Liverpool Literary and Philosophical Society.

Liverpool Microscopical Society. Liverpool Naturalists' Field Club.

Liverpool Science Students' Association.

Manchester Field Naturalists' Society.

Manchester Geological Society. Manchester Microscopical Society.

Menai Society of Natural Science.

Northampton Natural History and Field Club.

North Staffordshire Naturalists' Field Club and Archæological Society.

Norwich Science Gossip Club. Nottingham Naturalists' Society.

Patent Office Library, 25, Southampton Buildings, Chancery Lane, London, W.C.

Postal Microscopical Society. Quekett Microscopical Society.

Smithsonian Institution, Washington, D.C.

The Missouri Botanical Garden, St. Louis, U.S.A.

United States Geological Survey.

Vatican Observatory, Rome. Vienna Natural History Museum.

Wigan Literary and Scientific Society.

Yorkshire Naturalists' Union, Leeds.

HONORARY MEMBERS.

Those marked (*) have read or contributed Papers at the Society's Meetings.

a	Andmore Parkstone, Dorset
Allman, Prof., F.R.S.	Observatory Cambridge
Allman, Prof., F.R.S. Ball, Sir Robert S., F.R.S.	Ooservatory, Carone Numbead, London,
*Ball, Sir Robert S., F.R.S. Barrett, Chas. G., Esq., F.E.S.	
Candolle, Mons. Casimir De	Geneva
Cannizaro, Prof.	Rome
Cannizaro, Prof*Carruthers, W., Esq., F.R.S.	The British Museum, South Ten
*Carruthers, w., Esq., 1.1	sington, London, S.W.
Credner, Dr. Hermann	Taimaia
Credner, Dr. Hermann *Dawkins, Prof. W. Boyd, F.R.S.	Woodhurst, Wilmslow road, Fallow-
*Dawkins, Prof. W. Boyd, P.16.5.	field, Manchester
	an desil atmost Greenheus, Manchester
*Grindon, Leo. H., Esq *Hicks, H., Esq., F.R.S.	Handon Grove Hendon, London,
*Hicks, H., Esq., F.R.S	N.W.
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Hooker, Sir J. D., K.C.S.I., F.R.S.	The Camp, Sunningante, 22000
*Hughes, Prof. T. McKenny, F.R.S.	Trinity College, Cambridge
*Hughes, Prof. T. McKenny, F.R.S. *Hull, Prof., F.R.S.	20, Arundel Garaens, London, W.
*Hull. Prof., F.R.S. *Judd, Prof. J. W., F.R.S.	Royal College of Science. South Ken-
*Juda, Proi. J. W., F.10.5.	sington, London, S. W.
Kelvin, The Right Hon. Lord, F.R.S	28 Chester Square, London, S. W.
*Lubbock, Sir John, Bart., M.P., F.R.S.	Down Farnborough, Kent
*Lubbock, Sir John, Bart., M.F., F.10.5.	200 Flag Lang Liverpool, E.
*Lubbock, Sir John, Bart., M.P., F.N.S. *Morton, G. H., Esq., F.G.S. Norman, Rev. Canon, F.R.S.	The Rectorn Houghton-le-Spring,
Norman, Rev. Canon, F.R.S.	R.S.O., Co. Durham
	The Condendar Orford
Oxford, The Lord Bishop of	The Palace, Cuauesaon, Oxford
Oxford, The Lord Bishop of	Wykeham House, Oxford
*Rae, E., Esq., F.S.A.	Court Lodge, Birkenneda
*Rae, E., Esq., F.S.A Renard, The Abbé	Curator of the Royal Museum of
Renard, The Abbe	Natural History, Brussels
Röntgen, Prof. W. K.	
Röntgen, Prof. W. K. Roscoe, Sir Henry E., F.R.S.	10. Bramham Garden, London, S. W.
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To prevent a recurrence of a frequent misunderstanding, Members are reminded that their Names are retained on the Society's Books, and their Subscriptions considered due, until notice has been given to the contrary according to Rule 8.

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Shone, Mrs.	
Shone, Mr. Wm., Junr. Shrubsole, Mr. Alfred	. ,,
Shrubsole, Mr. Alfred	. Town Hall square
*Siddall, Mr. J. D	. 19 Eaton road
Siddall, Mrs	. 37
Siddall, Miss Annie	
Siddall, Miss G. M	
Siddall, Mr. W.	• 21
Siddall, Mr. Chas. Kingsley	·
Simon, Mr. John	.4 Eastgate row
Simon, Mrs	Flainere Curson norte
Simpson, Mr. Ricardo	Estan road
Sitwell, Mrs	120 Canning street Livernool
Skipwith, Mr. Francis	Old Bank Chester
Smith, Mr. T., J.P.	Blacon Point Chester
Smith, Mr Cecil P.	
Smith, Mrs. S.	16 Nicholas street
Smith, Miss H	. 3 Chichester Street
Smith, Mr. John	
Smith, Miss	
Smith, Mr. R. I.	Aldford, Chester
Smith, Mr. T. Smith, Mr. W.	. 73 Bouverie street
Smith, Mr. W	Glendale, Kilmorey park
Smith, Mrs	''' '''
Smyth, Miss Lyle	Barrowmore Hall, near Chester
Sparling, Rev. W., M.A *Spencer, Mr. J. H	. Upton Vicarage, Chester
*Spencer, Mr. J. H.	. 36 Bridge street
Stanyer, Mr. William	
Stevens, Mr. T	. 14 Easigate row
Stewart, Mrs.	Factors nothern Ouen's north
	,5 Eastern pathway, Queen's park
Stockham. Mrs*Stolterfoth, Dr., M.A., J.P	I Grey friors
Stolterfoth, Mrs	
Stolterfoth, Miss	• 99
	• 19

Stonex, Rev. F. Tilney, M.A Abbot's grange, Liverpool road Storr, Mr. F21 The Groves		
Storr, Miss 4 Pan Storrar, Miss Jessie 4 Pan Storrar, Mr. Andrew Bryni Storrar, Mrs. Jas News Strong, Mr. Gas S Sturge, Mr. F. A. Coed Sumner, Mrs. A. Sout Swaine, Major-Gen., C.B., C.M.G., G	," k street tirion, Chichester stre- gate street House Works, Chester Efa, Wrexham h view. Eaton road	et
Tasker, Mr. W		ıse
Taylor, Mr. Frank Taylor, Mr. J., F.R.C.S., J.PHays	earth House, 28 Nich	olas street
Taylor, Mr. J. G. B.A.	• • • • • • • • • • • • • • • • • • • •	**
Taylor, Mr. J. G., B.A Taylor, Mr. J. Reginald	"	٠,
Taylor Miss	**	,,
Taylor, Miss Taylor, Mr. John	le Hall Gardens	
Taylor Mr. A. It DA W 000S0	ome id., iligugate id.,	London, N. W.
Torrior Mr Hy H S A	HIZUH DALK	
Toulor Mrs (+	i, juli s Ivau, Queen	i's park
Thomas, Mr 18 P	epper street	
Thomas, Dr. E. J. Haynes	,,	
Thomas, Miss	**	
Thomas, Miss Constance	**	
m Miss F M		
75 35-mine 47 h	Ialkyn road, Hoole	
Thomas, Mr. Felix Chur Thomas, Mr. E. H. The	ton road, Tarvin road	1
Thomas, Mr. E. H The	Industrial Schools, B	ougnton
Thompson, Mr. HyBng	htholme, Curzon pari	
Thomson, Miss I.	Mrs. Hineks Northga	te street
Thornthwaite, Miss E. M Col Thornton, Mr. E Cott Thursfield, Mr. F., A.M.I.C.E 24 (C	age Homes Bridge	End. Glamorgan
Thornton, Mr. E.	age Homes, Drage.	Dia, Giamorg
Thursheld, Mr. F., A.M.I.C.E24	ing's huildings	
Tilston, Miss I K Tomkinson, Mr. Jas., J.P Wil	lington Hall, Chester	
Tomlin, Mrs	rpe Villa, Liverpool r	oad
Tomlin Miss Lilian Elliel	** **	
Tomlin, Miss Edith Clarabel Townshend, Mr. C. W., J.P Tree	"	
Townshend, Mr. C. W., J.PTre	vallyn, Wrexham	
Trelawny, The Hon, MrsSho	twick paik, Chester	
T 1 1 Mr T 44 1	STOOK SITEEL	
Tyrer, Mrs. Alfred	Newton, Chester	
Vernon, Mr. W57		et
Vernon, Mr. W	King street	
Vincent, Mr. J. A34 Vincent, Mr. W. F		
Vincent, Mit. W. 1.	"	
Wakefield, Mr. RobertNev	vton Hall Gardens	
Wakefield, Mr. T		
Wakefield, Miss A. E.		
*Walker, Mr. A. O., J.P., F.L.S., Nant-y-Glyn, Colwyn Bay		
Walker, Mrs	iverpool road	
Walker, Miss23	Titerhoot town	

Walley, Mrs Mountain view, Raymond street
Way, Mr. N. A. E 1 Stanley street Way, Mr. N. A. E
Weaver, Mr. W. M. Westminster buildings Weaver, Mr. Thos. Fern Cottage, Christleton
*Webster, Mr. G. Watmough, F.C.S Brook lodge, Brook lane
W Webster, Mr. Circuit M
Webster, Mr. Sirrell M
Webster, Miss Amy B.
Webster, Miss Almb
Wells, Mr. E
*Welsh, Mr. John, F.C.S12A Seller street
Welsh, Mr. John, F.C.S. The Duke of, K.G. Eaton, Chester Westminster, His Grace The Duke of, K.G. Eaton, Chester
Westminster, Her Grace The Duchess of Tetterhell Chester
Westminster, Her Grace The Duchess of , *Whichello, Mr. H., M.R.C.S The Mount, Tattenhall, Chester
White Mice H
TYTE 1-1- Mice M I 20 Sealand road
Wing Mr Walter Line I lie I list I lewton
Wilhraham, MISS E Yillig 5 buildings
Wilbraham, Miss F
Wilkinson Mr R
Wilkinson, Miss Jane
Williams, Mr. I. E Westminster buildings
Williams, Mr. John Blue Bell bank, Saltney Williams, Mr. John Blue Bell bank, Saltney Williams, Rev. J. R., M.A. Pulford Rectory, Wrexham Z. Tarvin road
Williams Rev. I. R., M.A Pulford Rectory, Wrexham
Williams Miss
Williams Mr P I O Eaton toda
Williams Mr James
Trens The transes, Plookersblook
Wolfenden, Mr. A
Wood, Mr. R. Stewart Wood, Miss 28 Queen street Wood, Mr. T. H. 23 Grosvenor street Wood, Mr. T. H. 24 Grosvenor street Wood, Mr. T. H. 18 Grosvenor street
Wood, Miss 23 Grosvenor street
Wood, Mrs. A
Wright, Mr. A. J 11 Bridge street row
Wright, Mr. A. J
Wright, Mrs
*Wynne, Mr. Geo. F 41A Tarvin road
Wynne, Mr. J. H41A Tarvin road
Wynne, Mrs
Wynne, Mr. John waverton, Chester
Yeadon, Mr. Thos 28 St. Anne street
Yeadon, Mr. Thos. Yerburgh, Mr. R. A., M.P25 Kensington Gore, London, S.W.
Verburgh, Mr. K. A., M. T.
Yerburgh, Mrs "

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